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COLLEGE MAGAZINE

SUMMER 2016

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BEREA COLLEGE: INVESTING IN LIVES OF GREAT PROMISE

CONTENTS

BEREA COLLEGE MAGAZINE VOLUME 87 Number 1

The Foucault pendulum in the Hall Science Building demonstrates the rotation of the Earth and serves as a symbol of continuity and change.

FEATURES

DEPARTMENTS

Front Cover: Dr. Mary Robert Garrett discusses with a student how to isolate a compound they synthesized.

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A rendering showing
how the Margaret A. Cargill Natural Sciences and
Health Building will appear when approached from the north.
To the right is Seabury Gymnasium.

GOD HAS MADE OF ONE BLOOD ALL PEOPLES OF THE EARTH
BEREA COLLEGE

BEREA COLLEGE MAGAZINE

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SCIENCE AND THE GREAT COMMITMENTS

By President Lyle D. Roelofs

In beginning construction on the **Margaret A. Cargill Natural Sciences and Health Building**, Berea College has embarked on one of the most challenging and important capital projects in its history.

Dr. Anes Kovacevic leads students through an exercise in his chemistry course.

This exciting moment is a great opportunity for reflection on the sciences as a key element of Berea's educational and outreach missions. Mathematics and the health and physical sciences are key to our basic mission of service to students who would otherwise not be able to attend college. In the course of planning and promoting this project, it has been a wonderful privilege to meet so many Berea College alumni, of all ages, who have been able to succeed and become leaders in these disciplines, and to a person, they credit the high-quality education they received at Berea for the start they needed; their talent and ambition did the rest.

At Berea we are committed to a liberal arts framework as the best means for providing transformative opportunity. As a scientist, I have become persuaded throughout my career how synergistic is the place of sciences within a liberal arts education. Often thinking about the sciences in the context of the liberal arts begins with the classical foundation of the liberal arts, the trivium and the quadrivium, where mathematics and the first scientific discipline, astronomy, were key elements of the latter, as ordained by none other than Plato!

Through the years, other well-known humanists and thinkers have made the same point. For example, consider this appreciation for science from Walt Whitman. "I like the scientific spirit—the holding off, the being sure but not too sure, the willingness to surrender ideas when the evidence is against them: this is ultimately fine—it always keeps the way beyond open—always gives life, thought, affection, the whole man, a chance to try over again after a mistake—after a wrong guess." Whitman gets the inquiring character of the sciences exactly right, and this level of appreciation for science is surely a necessary component of a liberal arts education.

In fact, at Berea College we are strongly of the view that all students, whether majoring in sciences or not, and whatever their career interests, need to achieve a number of objectives when it comes to mathematical and scientific knowledge: understanding of the role of science in society and our economy; confidence in their capacity to understand scientific pronouncements, analytical and mathematical arguments and interpretations, ability to discriminate between valid scientific work and bogus or even fraudulent claims; and more. Students may arrive at Berea with an aversion to or a fear of mathematics and science, but they should not graduate that way.

This is why our new science facilities will be beneficial for all students. Facilities designed to welcome students and facilitate the best instructional techniques not only benefit the science majors, but also serve to attract greater interest by all students.

I have been involved in developing new science facilities at both institutions I served before coming to Berea, and an observation from the first of those projects (Haverford College) illustrates this point. The Berea faculty who planned our new facilities incorporated a generous number of spaces for informal interactions, places where all students are welcomed to study together, meet with faculty, and assist and learn from one another. Much engaged learning will happen in those spaces, which serve as an extension to the laboratories and classrooms. We did the same thing at Haverford, and shortly after we opened those facilities, I noticed that a group of young women was frequently using an informal space near my office. A little later they introduced themselves to me as the women's soccer team—they gathered in that space regularly to support one another in all their courses, and they were not shy about stopping by my office if they had a question for me.

So, in addition to an approximate 25 percent increase in the number of majors in the sciences, we found that all students were drawn to the new facilities. Both patterns repeated themselves at Colgate University, the second project I was involved with, and other institutions report those enhancements as well.

What about the rest of our Great Commitments? At Berea we are also committed to the values of our Christian founding, and from time to time there are challenges in integrating faith and science. These are neither necessary nor insurmountable. Dr. Martin Luther King, Jr. offered an insight into how science and religion are not in conflict, but rather are complementary, when he said, "Science investigates; religion interprets. Science gives man knowledge, which is power; religion gives man wisdom, which is control. Science deals mainly with facts; religion deals mainly with values. The two are not rivals." Scientists, ever eager in their pursuit of knowledge about the world, however, do not eschew wisdom, either. Einstein, perhaps foremost among them, said, "Wisdom is not a product of schooling but of the lifelong attempt to acquire it," and certainly we agree at Berea College that education does not end at graduation—a liberal arts college degree should be a preamble to a long life of continuing learning. And why should a Christian be interested in science? Christian Psychologists David Myers and Malcolm Jeeves may have said it best, "... whatever God found worth creating we can find worth studying."

What about science and labor? The learning and doing of science has never seemed like work to me, but I don't know any successful scientists or science students who do not in fact work very hard. We expect that the lights will be on in our new building every day until late at night!

Our Fifth and Sixth Commitments empower the participation of all students in an interracial and coeducational community. Some of the science disciplines have struggled to achieve gender and ethnic parity and equity, so that this is truly another area that Berea College has much to offer to the disciplines and fields of math and science.

And then, what about mindful and sustainable living? For me, caring about the earth and our environment starts with appreciation based on understanding, and promoting wellness depends on full knowledge of our bodies and minds.

Our Eighth Commitment is to the Appalachian region. Berea College is known for its strong contributions to education and health care in Appalachia over the years. I am told that there were times in our history when the majority of doctors, nurses, and teachers in Eastern Kentucky had obtained their education at Berea College. While that is no longer the case, we are very proud of the contributions still being made by many Berea College graduates to the region. Moreover, the challenges faced by Appalachia such as environmental restoration, sustainable business development, drug abuse, improving educational systems, will all require highly trained and committed professionals in the health and technical disciplines. Our new building will ensure that Berea College continues to be a key resource for Appalachia.

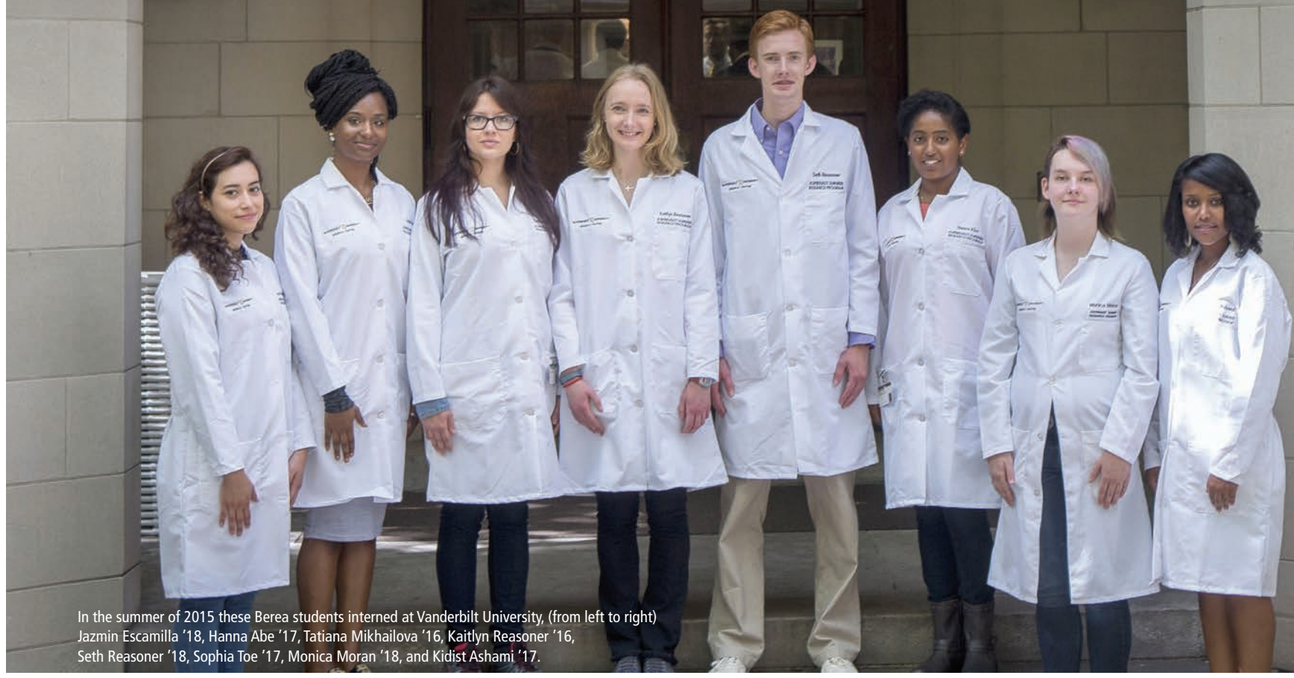
In conclusion, I have not been able to shake the feeling as I am writing this little essay, that I am preaching to a choir. There does not seem to be any doubt among Berea's cohort of friends and alumni of the need for and value of continuing our strong commitment to science education at the highest level. Our fundraising plans for this project seemed ambitious to all of us at the start, but the response of alumni and friends has been, in a word, astounding. While we still have work to do, it is not too soon to be saying a hearty bravo to this amazing choir of supporters.

A CHANCE TO COMPETE

By J. Morgan '91

Many liberal arts colleges face the challenge of providing science majors with the research and clinical experiences that will allow them to evaluate careers in science and medicine.

For many years, Berea College has met this need by offering the Summer Undergraduate Research Experience (SURE) to its most advanced students. Because the existing science facility, the Hall Science Building, has aging and limited lab spaces, the College has partnered with institutions across the country to place students in internship positions at other institutions. Some of the most successful placements have come through the help of alumni who are leaders in their fields — such as Dr. Rocky Tuan '72 at the University of Pittsburgh and Dr. Dennis Roop '69 at the University of Colorado — who recognized that Berea students needed research opportunities in order to compete for positions in the top medical schools and graduate research programs. Notably, Dr. Harold "Hal" Moses '58 has been inviting biology and chemistry students to work in his lab and other labs at the Vanderbilt-Ingram Cancer Center (VICC) since 2001.



In the summer of 2015 these Berea students interned at Vanderbilt University, (from left to right) Jazmin Escamilla '18, Hanna Abe '17, Tatiana Mikhailova '16, Kaitlyn Reasoner '16, Seth Reasoner '18, Sophia Toe '17, Monica Moran '18, and Kidist Ashami '17.

In the 15 years since Moses first welcomed Berea's students into his laboratory, nearly 60 have been given the chance to spend 10 weeks in an immersive research program on Vanderbilt University's campus. As a result, a significant pipeline between the College and Vanderbilt's graduate programs has emerged. Eight Berea alumni have gone on to do graduate work at Vanderbilt, three of those earning Ph.D.s. In addition, Kaitlyn Reasoner '16, who participated in the internship program during the summers of 2013 and 2015, started medical school at Vanderbilt this summer. Other Berea alumni who took part in the SURE experience at Vanderbilt have gone on to complete advanced degrees at schools such as the University of Virginia, Johns Hopkins University, and Boston University.

The original partnership between the College and Moses's lab has grown and deepened over the years. By 2006, Berea's students were able to intern in areas outside of the Moses lab through the Aspirnaut™ program, founded and run by Dr. Billy Hudson, director of the Center for Matrix Biology, and Dr. Julie K. Hudson, vice president for medical center relations at Vanderbilt. Hudson developed the program to meet the needs of rural students who

Dr. Harold "Hal" Moses '58

might not otherwise be exposed to careers in STEM (science, technology, engineering, and math) fields. Students in elementary through middle school participate through demonstration labs that are delivered by video conferencing, while high school and undergraduate students have the opportunity to intern in laboratories on Vanderbilt's campus during the summer. Participation in the Aspirnaut™ program has created benefits beyond those normally associated with SURE programs. Not only have Bereans gone to Vanderbilt to study, but some of the high school students participating in Hudson's program are now attending Berea.

In 2011, the relationship was formalized as the Hal Moses Summer Research Internship Program. Students selected for the program now receive a housing subsidy and a stipend, and qualified students are also eligible for early-decision admission to Vanderbilt's graduate programs. The fall of 2015 saw another milestone achieved. According to Dr. Ron Rosen, professor of biology at Berea, "We had the first Vanderbilt weekend where faculty, graduates, and medical students from Vanderbilt came to Berea and provided panel discussions regarding their personal experiences. They also answered questions from the Berea students in attendance and provided afternoon individual coaching sessions for our students regarding applications and preparation for professional and graduate school."

What's most important about any SURE program is the effect it has on individual students. While traditional coursework, where students are tested in their ability to read, synthesize, and apply information, remains a cornerstone of the undergraduate curriculum, studies from the last 20 years clearly demonstrate that engaging in long-term research projects has significant benefits that go well beyond the classroom.

Dr. Daniel Lovato, professor of psychology at Grinnell College, has been at the forefront of research in this area. In his article "Undergraduate Research as High-Impact Practice," Lovato lists a wide range of benefits, including improved skills in inquiry and analysis, greater understanding of research design,

Dr. Ron Rosen chats with a student.

and increased independence and self-confidence. These benefits are valuable regardless of the career path a student decides to take. As Rosen puts it, while "the internship program's purpose is to provide our students with a sustained opportunity during the summer to engage in cutting-edge research at a Tier 1 university," that doesn't mean the program only succeeds when those students choose careers in research. "Some find the experience interesting," he said, "but others decide that research is not a career they wish to pursue." In either case, the students have gained a clearer sense of the challenges.

What connects the Berea students who have participated in Moses' program is the desire to meet new challenges and to support others. Moses said much of the joy he found in his career came from conducting research that other scientists had not done before, research they found interesting and significant. He also said, "What gives me the most pleasure at this stage of my career is contributing to the success of people who have trained in my lab." Though he recently closed his Vanderbilt laboratory after more than 50 years of cutting-edge research, his legacy will live on in the lives and careers of the many students his work has touched. Clear evidence of this program's success can be seen in the lives of participants who have already launched careers in medicine, teaching, and research.

MANY PATHWAYS TO SUCCESS

As the first Berean to intern at Moses' laboratory, Dr. Jacqueline Price Sequoia '02 truly broke new ground. Not only did she spend the summer working in the lab of one of Berea's most distinguished alumni, Moses, she lived in the home of another, Dr. Sarah Hamilton Sell '34, a pioneering bacteriologist whose research led to the development of a vaccine for childhood meningitis. The full story of that first summer was told in the Fall 2001 issue of the Berea College Magazine, which can found at www.berea.edu/magazine/issue-archives/.

Reflecting on her time at Vanderbilt 15 years later, Sequoia remains grateful for the experience and the doors it helped open for her. "Dr. Moses wrote some of my early letters of recommendation, which helped me get other research opportunities and set me up for getting into a top 10 medical school," she said. Those other research opportunities included time at the Mayo Clinic and the National Institute of Health, before she went on the attend the

Monica Moran '18 biology

In addition to being part of the Hal Moses Summer Research Internship Program, Moran participated in the Aspirnaut™ high school program before attending Berea College.

How did your experience with the Aspirnaut™ program prepare you for going to Berea?

It really boosted my confidence a lot. I didn't know much about Berea before I came to the program. Dr. Billy Hudson introduced Berea to us, and we took some tours. It seemed like a really interesting school, quite different than what I was used to seeing at other colleges. It piqued my interest. I was still planning on going to Vanderbilt at the time, but my interest for Berea started growing more and more, as I got more acquainted with it and the students.

The Aspirnaut™ program definitely built my confidence. I didn't think about doing research until I got into the program because I thought medicine was more my field at the time, but then it opened up a new avenue. That led into my Berea experience too, because then I knew more about what it was that I really wanted to do.

Do you have a long-term plan for where you want to be in 15 years?

I would like to be in a neuroscience lab. Motor disorders are what I'm mostly interested in, so this lab feels like a perfect fit for me. I mostly want to get into some kind of graduate school, whether it be Vanderbilt or another institution, and be able to research for the rest of my life on diseases like Parkinson's disease, Huntington's disease, or MS [multiple sclerosis], which is what the lab I'm working in this summer focuses on.

Seth Reasoner '18 chemistry

What projects have you worked on during the internship program?

Last summer I worked on a project looking at some possible drug compounds that could be used in treating autoimmune conditions, like lupus. We had a bunch of different compounds we were looking at, and I helped develop some of the tests to evaluate those different compounds. This summer, Peter [a high school student from Iowa participating in the Aspirnaut™ program] and I are working on a different project. This summer, we're looking at how to deliver a small molecule that could be a cancer drug. We're looking at how we can deliver that into cells.

Do you enjoy the challenge of being thrown into something unfamiliar?

Oh, of course. I wouldn't be doing this if I didn't. In research, half the time you have no idea what's going on. You just have to learn to be comfortable with uncertainty and living on the edge. The questions we're trying to answer, no one has the answer for. You have to be comfortable being there and comfortable stepping off the edge a little bit; otherwise, you're not going to find those answers.

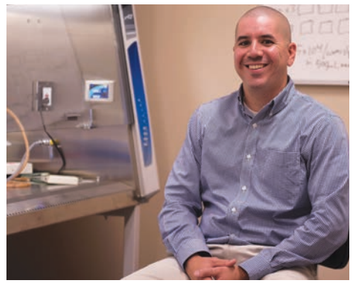
This was your second summer in the program; so what was it like going back to Berea?

I definitely felt more prepared for classes at Berea. In my beginning biochemistry class last semester, spring 2016, we were learning about different processes and different laboratory techniques, and a lot of them I've done here. I had a leg up on people. I definitely just feel more prepared to do any lab work at Berea.... Being here has taught me a different thought process, how to answer these questions, so I take all that back to Berea, too.

University of San Diego Medical School. Her interest in clinical research led her to study public health (she has a master's of public health in epidemiology from San Diego State University) and later she earned a master's of advanced studies in clincal research from UC San Diego. After an internship in obstetrics, Sequoia completed her residency to become board certified in family medicine.

Dr. Sequoia with her sister, Jessica Price Sutton '09, at her graduation from the University of South Carolina with a doctorate in geological sciences.

Today, Sequoia balances her time between working as a hospitalist (she plans to open her own private practice in the future), writing clinical articles (her co-authored paper on probiotics will be published in the American Family Physician journal later this year) and raising her family with her husband, Kevin Williams Sequoia '02, on their farm in Westminster, South Carolina.



Dr. Barton in a lab at Belmont University.

For Dr. Chris Barton '03, assistant professor of biology at Belmont University in Nashville, Tennessee, the chance to do research was a transformative aspect of his Berea experience. "When I started at Berea, I was an athlete, and when I left, I was a student-athlete," said Barton. He attributes much of this change to the attention he received from professors like Dr. Dawn Anderson. He recalls being an indifferent student until he took a genetics class with Anderson that ignited his interest in science. He said it was "one of the pivotal times in my college tenure" because she took the time to make an investment. Barton said the turning point was a conversation where Anderson said to him, "You can be really good at this. You should explore that. Are you interested in research?"

That simple question started a chain of events, including his internship at Vanderbilt. Barton said, "It was even an honor to even be asked. When I went there for the summer, I worked in a lab run by Jennifer Pietenpol, who, strangely enough, got her Ph.D. in the lab of Hal Moses." The project he worked on that summer, he said, "changed the trajectory of what I was going to do in science because I was fortunate enough to be on a paper that was accepted for publication." After graduating from Berea, he returned to Vanderbilt and Pietenpol's lab, where he completed his doctorate.

During graduate school, Barton had the chance to mentor students from Berea in the summer internship program. He said, "I found it extremely rewarding and humbling to think I had been given the opportunity to gain the knowledge and the ability to teach at that level." Mentoring helped him realize how much the internship experience meant to his career and personal growth. "I could remember walking into the same lab at Vanderbilt, sitting in the same seat where this student is sitting, and being completely overwhelmed," said Barton. "I think that was really important for me because it was my way, at least a small way, of giving back to Berea"

Though Dr. Rachel Saunders '08 knew from an early age that she wanted to be a physician, the chance to have a research internship at Vanderbilt still played a significant role in her career.
"Early on," she recalled, "I identified myself as someone who was pre-med, and I felt everyone at Berea took me under their wings and guided me in the right direction. They knew I wanted to go into medicine," said Saunders, "so I was matched with Dr. Anna Spanioli, a gastrointestinal surgeon. At the time, I was considering a surgical specialty, so it was really nice to not only be able to work in the lab but to also be able to go to the OR [operating room] with him and see some procedures. It was a nice introduction to medicine that let me see it was truly what I wanted to do."

Saunders completed her medical degree at the University of Kentucky (UK) in 2012 and her residency in June 2016. In July, she began as assistant professor of obstetrics and gynecology at the UK

J. Morgan '91

Dr. Saunders at the Polk-Dalton Clinic, which delivers family medical services to Lexington's Northside and urban community.

Marco Santos '18 chemistry

What was the focus of your internship at Vanderbilt?

I am doing research in the nephrology [study of the physiology and diseases of the kidney] department, and we're working on one of the proteins that stabilizes the network of collagen IV. This is being researched because end-stage renal disease [kidney failure] is characterized by accumulation of collagen IV. We're trying to understand how this protein helps the system. That's what I research. Also, because I am interested in medicine, I get to shadow different residents and fellows at the VA [Veterans Administration] virology clinic. I see how they interact with the patients, the way they talk, respond, everything they do. It's quite an enlightening experience.

Have you enjoyed the research experience this summer?

I do. It can be challenging, but it's worth it. I get to learn so much from all of the mentors here. They're all so willing to help. They're so nice and so patient because they know I've messed up so many times, but they still help me in getting better. And, I have. I feel like I've developed some really useful skills here.

Has the program helped you grow in other ways?

Everybody, including Dr. Julie Hudson and Dr. Billy Hudson, encourage us to be better all the time. Dr. Julie Hudson meets with us about future plans and our careers. She's so helpful. She gives you options; she tells you what you can improve, what you don't have to do but you could do to be better. She has given all of us all her insight as a professional. I think that's really great.

Kidist Ashami '17 biology and chemistry

Caleb Coffey '17

What was the focus of your internship at Vanderbilt?

The main focus was kidney fibrosis and diabetes-induced kidney fibrosis. I was working on a protein, and it was very interesting because they just found out how that protein affects kidney fibrosis, and there isn't much known about that protein. So I mostly worked on purifying and preparing that protein so they can send it to Germany for further study.

Why do you want to go to medical school?

Most of my life, I have wanted to be a medical doctor. I grew up in a poor neighborhood in the capital of Ethiopia, so I had a chance to see people, including in my family, die from silly reasons, and they didn't have access to quality medical care to tell them what was really happening. And also other more serious but preventable diseases such as tuberculosis and malaria. And I have always wanted to be a solution for that. I had been part of health-focused volunteer organizations with some NGOs (Non-Governmental Organization), and I thought if I had the training in that, I would be able to do even more.

After I came to the U.S., especially living in the Appalachian region, I realized that health is not a problem only in Ethiopia or other developing countries, it is a problem everywhere. That motivated me even more to have a career that would not be confined by one border, and I can go anywhere in the world and help people.

Medical Center. After achieving one of her personal dreams, Saunders began to consider how "giving back" can be part of her next challenge. In the future, she hopes to have the opportunity to allow students from Berea "to come shadow me over the summer."

Sharing his love of science and mentoring younger Bereans has been part of Aaron Fidler's life since graduating in 2009. As a doctoral student and lab manager at Vanderbilt, he participates in the Aspirnaut™ program both by overseeing a lab in which interns work and by teaching labs to students ranging from third to eighth grade in rural school districts. Fidler says, "I've been heavily involved in the video conferencing aspect. Essentially what we do is use Skype, Google Hangouts, or Zoom to connect with classrooms in Tennessee, Arkansas, Maine, Montana, North Carolina." Because these districts often lack sufficient funding, Fidler notes, the video labs are often the most significant exposure the students will have to scientific research.

Fidler's career goals are split between his interest in research and his interest in science communication, a path that might lead to becoming an editor for a scientific journal. After working with students in the public schools for several years, he has seen the need for better science education, and learned he enjoys building bridges between complex scientific research projects and a broader general audience. "If people don't understand what we're doing in the laboratory and what our science really means, what is the point?" said Fidler. "There are lots of things that come out of our work that has enormous impact on people's health and lives, and we want the public to know about it."

Aaron Fidler '09 in the lab he manages at Vanderbilt University where he is pursuing his doctorate.

Tommy Boykin '13

While some of the paths leading to internships at VICC are somewhat predictable, having originated from a student's interest in genetics or medicine, that certainly wasn't the case for Tommy Boykin '13. As a physics major, Boykin is one of the few non-chemistry or non-biology majors to have participated in the program. Still, it had a major impact on the direction of his career. He recalls the first few weeks on campus being very challenging.

"I had no idea what people were talking about because for three years I'd been learning physics. I knew how to talk about how equations are related to systems, but not about how chemically stable or how biologically efficient the systems were. At first, I really was a fish out of water."

That changed, however, when his advisor, Dr. Charles Sanders, had him begin a project that involved nuclear magnetic resonance (NMR) imaging. "I remembered that Dr. Amer Lahamer, my mentor and physics teacher at Berea, had mentioned NMR, and so I asked my advisor if there was overlap with physics. He said there's a new up-and-coming field called biological physics."

Boykin, who is starting the physics Ph.D. program at the University of Central Florida this year, continues to do research in this area. "My research applies to optical and electrical sensing," which may have applications ranging from camouflage to treating patients with epilepsy, Boykin says.

THE FUTURE OF RESEARCH AT BEREA

The Vanderbilt program has helped many students strengthen their research skills and afforded them an opportunity to explore careers in biomedical research that would otherwise not have been possible at Berea. While Berea's current students will have access to better, more modern lab spaces in the Margaret A. Cargill Natural Sciences and Health Building when it opens for classes in the fall of 2018, the summer internships through Vanderbilt and other institutions will continue to provide Berea's students with a competitive edge.

Dr. Matthew Saderholm, chair of Division 1, which includes the biology, chemistry, mathematics, nursing, and physics programs, believes adding better on-campus research facilities to the existing program will open up research as a career for more students: "Our training is often the first step toward a research arc for many students because they come from schools with poor access to modern science and limited exposure to STEM careers." As a result of the new building, "many more students will have their eyes opened to new possibilities here through undergraduate research, which will allow them to build their resumes to a point that they are able to compete for positions at more prestigious institutions."

In Fidler's view, the new building will provide an essential supplement to the internships: "Ten weeks is just long enough to get your feet wet, to make you interested or make you realize you don't like research." He believes that having improved laboratory facilities will be a significant boon to undergraduates at Berea because they will allow students to continue research throughout the school year.

Boykin agreed by saying, "I believe a new science building will open up not only research opportunities, but open up students' minds about what opportunities there are, as far as experiments and new ways of thinking."

BEYOND THE LECTURE:

Teaching Science in the 21st Century

By Jason Lee Miller

The academic lecture has been a standard feature of college campuses since the days of Plato. In the Hall Science Building, erected in 1928, that ancient tradition continues in a very felt way. Students plop themselves down into tiered rows of wooden seats handmade by College Crafts decades ago, facing forward and ready to absorb wisdom from a distance.

But, "science is not sitting in the classroom," says Dr. Matthew Saderholm '92, chair of Division I, which includes Berea's biology, chemistry, mathematics, nursing, and physics programs. "Science is really a very active approach to understanding the physical world."

In those words rest the seeds of debate, another tried-and-true academic standard, about the efficacy of lecture versus the real-world training that occurs in the laboratory.

"We all went through our educations being lectured to," says Dr. Tracy Hodge, associate professor of physics, referring to the science faculty. "And we're very good at it. If we weren't good at taking notes and sitting through lectures, we wouldn't have made it through undergraduate and Ph.D. programs. And it's how we learned to teach, but experience tells me it's not always the best way to teach."

That being said, she adds, there's always room for "a knockout lecture," especially in higher-level, heavily theoretical courses like quantum mechanics. All of the faculty consulted for this article were careful to note that lecture still holds a special place for them, especially at the senior level.

Research shows that learning in the laboratory works well for students because it is experiential and active. By contrast the passivity of the lecture experience inspires less engagement, resulting in less learning. Our current building lacks the facilities and space to support more active learning approaches.

EVOLUTION

There is an old story of a professor who says to the first-year students at the beginning of a tough science course, "Look to your right. Look to your left. One of these people will not be here at the end of the semester."

While faculty are no longer so discouraging, attrition, the rate at which students fail or withdraw, is highest among first-year students in introductory science courses at almost all colleges, including at Berea. Evidence shows that not only is the lecture approach not optimal for learning, but also that it contributes heavily to the high attrition rates found in first-year science courses. To increase the survival rate in difficult introductory courses, students and teachers have to evolve.

The faculty in the highly evidence-based Division I are committed to their part in this necessary evolution. For example, this fall, biology chair Dr. Megan Hoffman will use her sabbatical to focus on better ways of teaching biology, even though she is already a nationally recognized expert in Process Oriented Guided Inquiry Learning (POGIL). Developed in the mid-1990s, POGIL has been shown to be an effective way of teaching high school and college science courses.

Student-centered with an emphasis on group learning, POGIL exists under a broader category known as active learning. Students work in small groups on a specially designed activity with a set of information, such as graphs, images or videos, and a question to address about that information. They find their answers together, discuss them, and present them to the class. They "do" science, rather than hear about it. Just as importantly, the teacher steps away from

Berea students collaborate within a physics course lab, where the SCALE-UP method encourages students to be active participants in their own education.

With active-learning techniques, Berea students learn to work together to solve problems and present their solutions in class.

her lectern and gets in the thick of it with them, guiding and explaining as necessary.

"Many, many studies," says Hoffman, "suggest that when students work in this way, they understand the material better and retain it longer."

These claims are reflected in attrition trends as well, she notes. "The number of students who get Ds, Fs, or withdraw from the class is going down. The number of students who get As, Bs, or Cs is going up."

POGIL, and peer-assisted styles like it, takes students out of their seats — and sometimes out of their comfort zones. Part of the overall learning process is not just individually and materially focused; it's teamwork focused. Students must present their findings to their peers, and if they have not participated fully in the work, they risk both letting down their teammates and looking lost at the front of the class.

Blending lecture, discussion, and hands-on learning is essential for effective science education.

As a student, Anna Skaggs '17, a biology minor, speaks of the POGIL system from experience with it in her chemistry class. "I really liked it," says Anna. "A lot of my classmates didn't, but I've found that even though you have to struggle through some of the problems, you understand chemistry better by the time you get done."

In short, group work requires more effort. It also requires social skills.

"Group work is the reality of what students are going to experience when they graduate," says Dr. Ron Rosen, professor of biology. "When you get out of school, there are technicians, post-docs, graduate students, mentors. It's a little micro-community. They need to learn to function with disagreements and different kinds of behaviors. One of our goals is to give students as much experience as possible."

In conjunction with the development of group work experience, students within these teaching frameworks develop practical science application experience. In Rosen's classes, first-year biology students participate in investigative laboratories, conducting real experiments and collecting real data in search of answers that nobody, including the professor, knows the answers to.

In Saderholm's biochemistry course, students do not write the traditional research paper. Instead, they use a web application for developing 3-D virtual models of chemical structures and build a webpage to present to the class. In this way, Saderholm says, students learn more about protein structure and its connection to function.

The overarching goal is that when Berea science students enter the work world or graduate/professional school, they'll be ready, and employers and research institutions will happily receive them.

While much of the science faculty is moving toward or already utilizing active learning techniques, there is still one major limitation: the building. It's only designed for lecture.

FORWARD

On first meeting, Tracy Hodge might not strike a person as overly demonstrative. She's factual, logical in a way that says, gently, here's what is true. Though a physicist, bring up something abstract and heavily theoretical like string theory, and she'll walk you back to the mathematics that enable an object to move through space and time. Here's how it works on Earth, and in the sky. And there, in the sky especially, you'll find her excitement. The astronomer's smile widens at another point in the conversation: when talking about the new building, still just a hole in the dirt.

She speaks of the current building in makeshift terms, about how she has placed several white boards around the classroom for students to write their equations so she can see them, and the limitations of space. "In the new building," she says, "the walls are going to be glass, so the white board space isn't a problem. Students can just write on the glass."

Students "doing" science, rather than hearing about it, in a Berea chemistry class.

In this future, she continues, there are multiple projectors in the room so students don't have to turn around in their seats, and the workspaces are large enough for true collaboration. "We'll make it next to impossible to just lecture," she smiles. "I think a student sitting in a classroom like that will say, 'Why are you lecturing at me? Let's do something!'"

The Margaret A. Cargill Natural Sciences and Health Building will better support a teaching method Hodge has employed for the past 10 years, called SCALE-UP (Student-Centered Active Learning Environment with Upside-down Pedagogies), developed specifically for physics students at North Carolina State University.

SCALE-UP centers on students rather than the professor, and in doing so, students become active participants in their own education. It occurs not in a classroom, but a studio. There is no separation between lecture and laboratory, and students do not sit at desks, but at large round tables where they can talk to each other about their work as the professor floats around the room to assist. Since its inception, SCALE-UP has been introduced at over 200 educational institutions, including the Massachusetts Institute of Technology.

Hodge's excitement about the new building is felt among other faculty, who, after a brief discussion with them about the present and the future, are starting now to solve problems still a fair distance down the road. Berea will have a solidly 21st century building, but how do we make certain the new building functions in the 22nd century?

"With the new building," says Rosen, "we realized what we're talking about now might be very different 20 or 30 years down the road. The new building has to be flexible."

NEW FRONTIERS

The Berea College forest gets more attention for its history than its future. Its existence has become a symbol of conservation and sustainability, complete with charming images of mule teams pulling logs, and headlines about historical projects only this particular forest can support. Last year, the forest provided the rare kind of oak trees necessary to build a true replica of the Mayflower, docked at Plymouth.

It might be surprising, then, to hear Rosen mention the forest when speaking of the future of the science program. "We have a minor in forestry resource management," he says, "but we've been talking about having a major in that. We have more than 9,000 acres of forest, a tremendous resource. It's a little different, but it's something that might be tied in with geology. We hope to bring back geology or earth science as a minor or major. There's a lot of overlap."

That sense of overlap dovetails with the general sense of possibilities the new science building carries. There is math in science. There is science in nursing. The new building will bring all these disciplines together under one planetary system.

"Our divisional structure has been pretty effective," adds Saderholm. "We've utilized it to find common cause and align our efforts. We already have interdisciplinary approaches, biochemistry, biophysics. The most exciting discoveries are happening at the edges of fields where you can bring together two areas of expertise and see something new. There are real opportunities for cross-fertilization, and we are all very excited about bringing nursing and mathematics into our new building, as we will have more opportunities to develop interdisciplinary connections."

Dr. Matthew Saderholm '92 during a chemistry lecture.

The new building will be able to support students pondering these new ideas.

Like the forest, science has its own narrative history. Great minds working in relative isolation, poor, misunderstood, unrecognized until, suddenly, a breakthrough. The current building supports the story, but Rosen and Saderholm are looking to flip the narrative on its head.

"We've been kind of isolated in terms of visibility," Saderholm says. "The new building has a lot of glass in it, and you can see what people are doing." Also, the new building's location is along one of two main drags, along the north side of campus, a space with an expansive history of nothing to look at. It will be, quite literally, where liberal arts and STEM connect. And there, says Saderholm, is a final, uniquely Berean overlap of the disciplines.

"Service learning is another well-established learning approach. Berea has a long history of using it in other areas. We can do that in that our building, too. Last year, I coordinated with the public school to have our introductory chemistry students do demonstrations for the high school chemistry and physical science classes. They worked really hard on that. It really meant something that high school students were coming in and listening to them. I think both my students and the high school students benefited. Outreach works both ways, but it will be much easier to facilitate in our new building."

Outreach is where all the scientists consulted for this article get dreamy. Hoffman speaks of toddlers holding snakes, elementary students looking through microscopes, of entire new staff positions for coordinating with local schools. Hodge, naturally, speaks of the sky.

"Astronomy is the ideal science for doing outreach," she says. "Everybody loves to think about the planets and the stars, to look through a telescope at the moon or Jupiter or a nebula. We'll have a larger planetarium — a digital learning theater with so much programming potential. We all agree that STEM education is important, but it's difficult for teachers to find those kinds of enriching experiences for their students. We'd like to change that."

With inspiration like that, you can bet they will.

HOMEGROWN HEALTHCARE, HOMEGROWN COMMUNITIES:

AN INTERVIEW WITH WENDY WELCH

By J. Morgan '91

> "We need doctors who grew up here, who understand automatically what it means to be an Appalachian in the coal fields, who go to medical school, come back, do their residency here, and then set up a practice."

Living out the Eighth Great Commitment, which charges us "To serve the Appalachian region primarily through education but also by other appropriate services," is one of many factors that led the College to build the Margaret A. Cargill Natural Sciences and Health Building. Once completed, the facility will improve science education and, over time, increase the number of graduates who return to the region as healthcare professionals, something the region needs for many reasons. Appalachian communities continue to struggle with cancer, diabetes, heart disease, and stroke at rates well above the national average, according to the Appalachian Regional Commission (ARC).

Why these differences persist, and how to address them, has been the focus of intensive study over the last 50 years. To better understand the current situation in the region, I visited with Dr. Wendy Welch, an ethnographer who runs the Graduate Medical Education Consortium (GMEC) at the University of Virginia-Wise. She is also the editor of a collection of scholarly essays, *Public Health in Appalachia: Essays from the Clinic and the Field*, but is probably best known as the author of *The Little Bookstore of Big Stone Gap: A Memoir of Friendship, Community, and the Uncommon Pleasure of a Good Book*.

How is GMEC helping improve healthcare in the region?

A lot of what we do in GMEC is, as we say, the three Rs, recruit, retain, and roots. By roots we mean "home grow." We're looking to develop medical professionals who can help build the infrastructure and the long-term sustainability of a system by having our own people work here. We need doctors who grew up here, who understand automatically what it means to be an Appalachian in the coal fields, who go to medical school, come back, do their residency here, and then set up a practice.

What makes bringing young healthcare professionals back to the area a challenge?

First, we have the problem that the best and the brightest are too often skimmed off in urban areas. When you have really, really smart kids who are from here and who get it (the culture), they know their ability to make more money, their ability to pay off their student loans, which are hefty for doctors and dentists, is faster and simpler in an urban area than here.

The less support they get from grant assistance programs or a debt forgiveness program, the more likely they are to feel pressure to work in an urban area. What I do a fair bit of is simply making sure that people can make informed choices not only about debt forgiveness but also about how much it's going to cost them to live here versus living in an urban area. The cost of living here is lower, and that really needs to be factored into the overall equation. Unfortunately, that hasn't been a conversation that we have had often enough in the past with would-be professionals.

Second, there are those stereotypes, those unfounded stereotypes of what it means to live in Appalachia. Fairly often, we hit those pretty hard, too.

Why is retaining these young people important to the communities in the region?

One of the reasons we like to see our doctors come back with a spouse is because that spouse is going to be a professional, too. The community gains a new head teacher or the director of a daycare. When you bring a doctor back to his or her home community, you're often bringing a whole family of professionals, and you are planting the seed of future development.

We love telemedicine, but that approach cuts out the economic development that happens with a doctor on the ground. One doctor in a rural community is worth 1.2 million per year in economic activity.

Not to mention that most rural communities like ours have that doughnut hole in their populations. Our 18 to 24-year-olds go to the local college, but then they go away to graduate school. They disappear because the job prospects are in urban areas. They raise their children in the urban area, launch their families, then look around for a retirement job because they can retire at 45 or 50 and come back to a rural community. In the last census, our 65+ population grew by 5 percent. Our 24-40 population dropped by 15 percent.

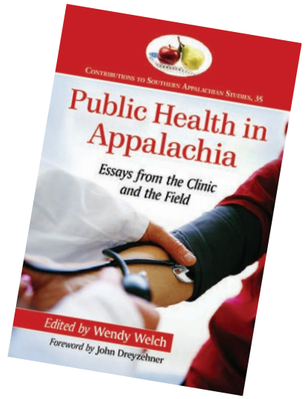
How does being from Appalachia help that student solve some particularly interesting or challenging problem that the region faces? How does it better prepare them to be part of that solution?

One of the reasons I edited the book *Public Health in Appalachia*, and one reason we look for homegrown students, is the belief that if the problem's in the community, then the solution is there as well. It's in the kids who have grown up watching their grandmother battle with type 2 diabetes while cooking chicken and dumplings for Sunday dinner every week. Kids who have also seen her growing a beautiful vegetable garden. It leaves them wondering, why does grandma have type 2 diabetes if she has all the healthy food in the garden? Well, she's getting government commodities, she's getting government flour, she's getting government pork fat, and this child — before she knows what she's seeing — already has half of the solution in her head because she's seen the difference between, "this is what you need to eat" and "this is what we're going to give you for free."

By the time she hits high school and learns about nutrition, she's starting to understand what's not working: They're handing out lard to the poor people. It's amazing how much common sense is missing from the way that we approach healthcare problems. I think in large measure that's because the people who are from the region don't stay so they can't stop the bad solutions from starting.

If we bring these students back, they can apply their combination of cultural competency from growing up here and what they learned in residency about nutrition; they will have a real chance to succeed.

Those are the people we're looking for, the people with the heart and the mind, and the background.



What can be done to bring the Appalachian students back to the region?

I think over the long haul, we're seeing a new generation of Appalachian kids who want to go back to the land. We have a whole generation of college-educated people who have day jobs but won't shop at Walmart because they'd rather grow their own food. People who are learning to live sustainably, not because they think it's fun, but because they think it's going to be necessary.

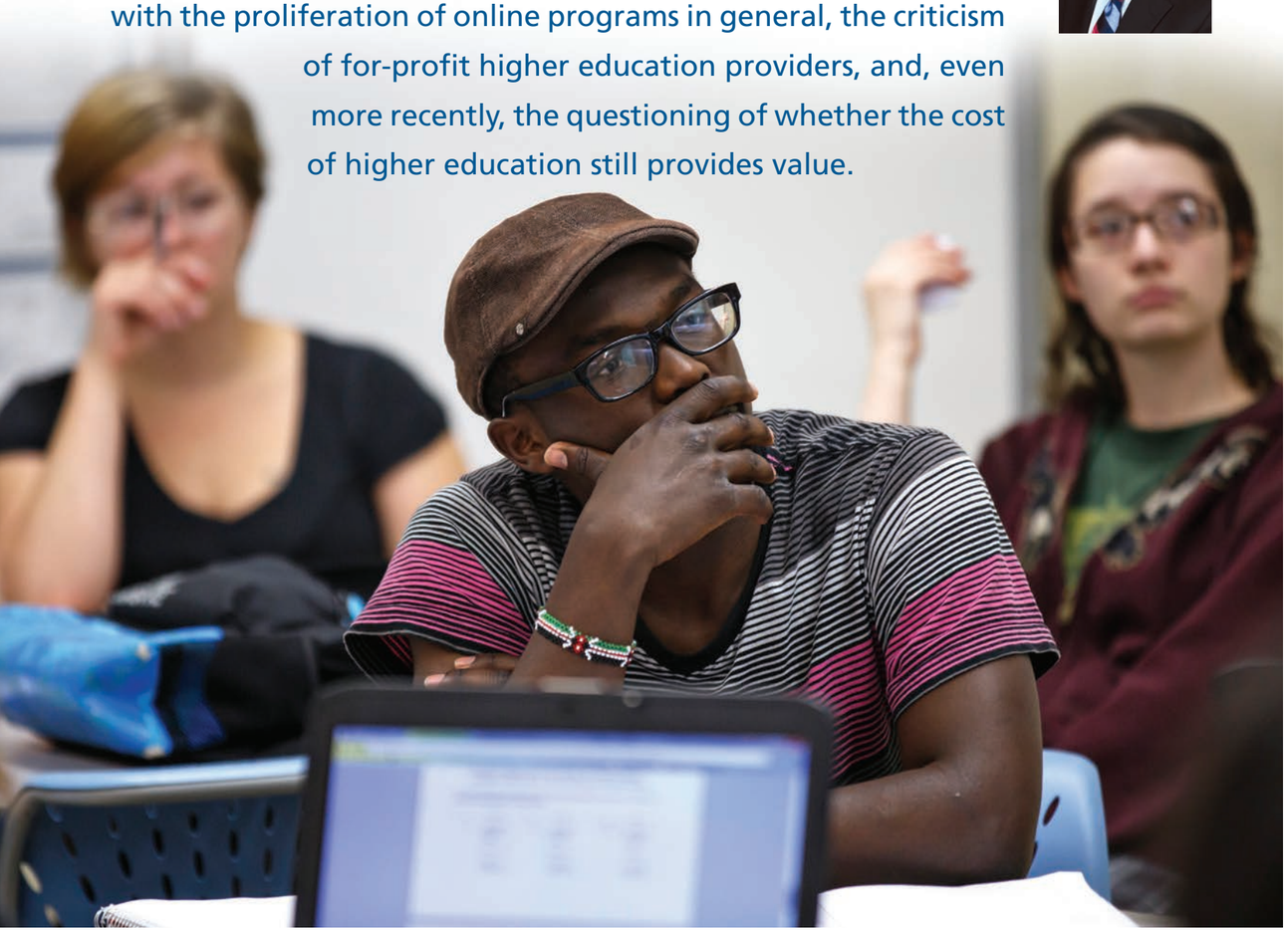
I think these kids are seeing the big picture of what's going on, and they're working to make sure their kids can live the way they live. They're working for a sustainable Appalachia, and I think that's one of the best things that can happen.

The more we have this new generation of Appalachia rising — a lot of books that characterize them this way — the better off the region will be. I'm talking about people who have thought about how they can live an economically sustainable, viable community lifestyle, and hold down a job doing work they enjoy. I think that changes not just Appalachia, but the world.

From **STEM** to **STEM-N**: Building the Future

By Chad Berry, academic vice president and dean of the faculty

Higher education appears to be in the midst of great change. The last ten years have seen the decline of public support for public higher education through tax revenues, the rise (and fall) of MOOCS (Massive Online Open Courses) in particular, along with the proliferation of online programs in general, the criticism of for-profit higher education providers, and, even more recently, the questioning of whether the cost of higher education still provides value.



Amid such change, though, there is still a great deal of continuity. Students continue to attend college, graduate students continue to choose a career in higher education through pursuit of a terminal degree, and private and public higher education continues to sustain itself despite all these challenges.

Berea College has largely been immune from many of the most vexing challenges; the College is blessed with an endowment that continues to provide a high-quality education. Students continue to seek out Berea for the promise it provides, typified by a residential educational experience with close faculty-student and staff-student face-to-face relationships with high expectations, even higher levels of support, and powerful mentoring. And the College has long integrated deep learning in the sciences and nursing in a predominantly liberal arts setting with very successful graduates in the sciences and nursing going on to do great things for society.

The planning work of faculty and staff in the natural sciences, mathematics, and nursing around the kind of learning spaces that will continue to inspire, challenge, and prepare the next generations of students in the natural sciences and health professions has taken place within this context of change and continuity. The new Margaret A. Cargill Natural Sciences and Health Building is the result of this deep thinking and careful planning.

Quite simply, Berea's existing science building is well past its prime. Its shallow floorplan with a central hall make classrooms long and narrow, inhibiting flexibility. Its laboratories and the building piers in each room limit sightlines and interaction. It is a very old structure, and mechanical, engineering, and plumbing challenges make it expensive to operate and difficult to keep comfortably heated and cooled in a sustainable manner. The Hafer-Gibson Nursing Building is also outdated and rather inflexible given its peculiar shape and design. Berea faculty and students, in typical fashion, have made the best of outdated buildings, and students' academic and professional success has been in spite of such buildings, not because of them.

In the last two decades, science and nursing education in particular have changed rather dramatically, especially focusing on seeking to educate more students in the STEM (science, technology, engineering, and mathematics) fields and in nursing. (At Berea, we sometimes inclusively call this STEM-N to include nursing.) Politicians, researchers, CEOs,

In the last two decades, science and nursing education in particular have changed rather dramatically, especially focusing on seeking to educate more students in the STEM (science, technology, engineering, and mathematics) fields and in nursing.

Dr. Matthew Saderholm '92 works closely with students in all his classes.

healthcare leaders, and many others all agree the U.S. must continue to fix the "leakage" of students in the STEM-N pipeline, which describes the attrition that occurs as students who think they want to major in the sciences or nursing eventually become discouraged and move on to another major. Why do we need more STEM-N students? The answers run the gamut from national security concerns to healthcare crises as the population ages and as nursing shortages intensify.

Much of the attention on ensuring more students are attracted to STEM-N involves not just how students are taught, but where. Over a decade or more, natural sciences and nursing buildings have continued to evolve in alignment with latest pedagogical concerns, approaches, and developments. Berea College is the beneficiary of such building planning and design elsewhere, and the new Cargill building represents the collective learning of such work nationally. Several features of the Cargill building reflect the cumulative thinking of design approaches, as faculty and staff and administrators have visited at least a half dozen or more recent buildings across the country.

While the exterior of the building is designed to be iconic and to reflect the campus's predominant architecture of the Georgian Revival—in keeping, for example, with Draper, Frost, and even the existing Hall Science Building—the inside of the building is very modern. For example, the interior of the building makes extensive use of transparent glass walls to appeal to students by letting in light and also inspiring and demystifying what occurs in classrooms and, particularly, labs. STEM-N buildings of yesterday, conversely, have solid interior walls and doors that blocked out any view into the room, making the act of "doing science" or "practicing nursing" quite stealthy and even befuddling to new students who might either be passing through a building or taking a general studies class in a building.

Nursing classes offer students the chance to put ideas learned in the classroom to practical use while developing crucial interpersonal skills.

Such a transparent concept, often referred to as "science (and, in this case, nursing) on display," is intentionally designed to inspire students who have not yet chosen a major; seeing students inside the building working with their peers on problem-based learning in classrooms, labs, or high-fidelity nursing simulation spaces seeks to transmit a "you-can-do-this-too" message. For this reason, most introductory courses and laboratories are intentionally placed in the central glass-walled stack that runs from the bottom floor up through the fourth. Even on the exterior, the building's 17 group study spaces are visible day and night, conveying a rich academic learning culture to those walking near the building. All of these features are meant to inspire STEM-N students but also all students, who use the building. In this way, the new Cargill Building is meant to serve all of Berea's students since all students have a general education requirement in science and in quantitative reasoning.

…seeing students inside the building working with their peers on problem-based learning in classrooms, labs, or high-fidelity nursing simulation spaces seeks to transmit a "you-can-do-this-too" message.

Second, classrooms overall are designed to be very flexible and effective as changes continue to occur in the pedagogy of learning spaces. Faculty and staff in the sciences, mathematics, and nursing programs were continually cognizant that they were designing a building for future students and colleagues rather than for themselves and for today's students. So interior walls, lab spaces, and classrooms can rather easily be refined two decades from now as the need may arise. And while you may have taken introductory science and nursing courses in large, tiered classrooms, today's classrooms, we know from published research, are more effective in smaller and more personable—and hence, more supportive—learning environments. So classroom sizes vary from 16 to 30 seats for the most part, and even the furnishings are intentionally designed to be flexible, easily transformed from a row format of students to groups of four students engaged in a learning activity and working together for its resolution. There continues to be a large tiered space that will seat approximately 100, but even this space is designed with flexibility in mind—seamlessly moving from a guest lecture to a planetarium show to an evening movie screening available to the entire campus. Research done both at Berea and elsewhere prove that spaces that accommodate active—rather than passive—learning, and learning that is student—rather than teacher—centered are more efficacious in fostering deep learning.

Third, the building has intentionally considered the growth in the number of students attracted to STEM-N as a result of the new learning environment. On average, new buildings promote an increase of 25 percent in students majoring in STEM-N, so the building design committee had to keep this in mind. Noteworthy here are the student project spaces for biology that will allow students to mount and conduct an experiment throughout a semester rather than having to take it down and set it up again, as is currently the case, because of a lack of space. And the building deliberately incorporates classroom and lab spaces for geology to return to the building, along with courses in archaeology. Finally, the building seeks to inspire not just current Berea students but also local students in K-12 schools through its Discovery Center, which can flexibly host and educate students on field trips to the new Cargill building.

Finally, the building is designed to be the home of all academic programs in Division I at the College: biology, chemistry, mathematics, nursing, and physics. There are great interdisciplinary and inter-professional opportunities for integrating programs and faculty together. Nursing students, especially, stand to gain a great deal from being near math faculty, for example, or just down the hall from the anatomy and physiology lab. Current nursing students have noted their excitement at being integrated in a building that includes relevant disciplines to nursing.

So in this new learning space, there is a great deal of change incorporated in how Berea will prepare its next generations of students in STEM-N. There will be new scientific equipment, new laboratory technology, new digital learning opportunities, and state-of-the-art high-fidelity mannequins onto which nursing faculty can simulate health situations and emergencies for nursing clinical teaching. And for many years to come, it will strengthen the place of science and nursing in Berea's predominant liberal arts context, helping to challenge and inspire students to respond to the challenges of our century.

… the building is designed to be the home of all academic programs in Division I at the College: biology, chemistry, mathematics, nursing, and physics. … [N]ursing students have noted their excitement at being integrated in a building that includes relevant disciplines to nursing.

Flexible teaching spaces encourage student-to-student interactions that enhance learning.

View from Main St. south

View from Campus Dr.

View from Danforth

A FIRST LOOK AT THE MARGARET A. CARGILL NATURAL SCIENCES AND HEALTH BUILDING

By J. Morgan ’91 and Scott Tracy

The Margaret A. Cargill Natural Sciences and Health Building is a thoughtful, positive response to rapid advances occurring in health care, science, technology, and teaching in the twenty-first century.

For more than two years, nursing and science faculty and key administrators considered the needs of Berea’s student, for today and into the future, and developed a plan to create space capable of enhancing the College’s strong tradition of nursing and science education to ensure our graduates are ready to step into graduate studies or careers in technical fields.

To bring their vision to reality, the College worked with Ballinger, an architecture and engineering firm from Philadelphia with a special focus on creating spaces for science and health care in both academic and corporate settings. One of Ballinger’s principals, Jeffrey S. French, FAIA (Fellow of the American Institute of Architects), was the lead on the Cargill Building project. His charge was to bring together biology, chemistry, geology, physics, mathematics, and nursing under one roof by creating an interactive, technologically rich learning environment that will serve Berea’s students for the next 50 years, while complementing the existing architectural style of Berea’s predominantly Georgian Revival architecture.

In the end, the challenge of blending the past and the present was key to the success of the design. French said, “What unlocked the box for this project was finding a way to marry the faculty interest in a progressive, contemporary science teaching environment with the contextual Georgian campus architecture.” Once the building is complete, French believes the integration of past and present will be stunning. “We fully expect people to say, ‘Wow, I wasn’t expecting this,’” when they enter the building, because the interior will be contemporary, transparent, and “flooded with light,” French said.

Beyond the aesthetics of the building, French also believes the new space will improve learning outcomes by enhancing collaboration and dialogue between teachers and students. The design of the building facilitates project-based learning, so class time can be focused on doing science rather than lectures. He hopes the “interdisciplinary overlap” in the building will encourage greater student interaction as well. “Potentially, you will have a student focused on biology next to a student interested in physics who will be working on the same project,” which mimics the cross-disciplinary approach to projects found in the contemporary workplace.

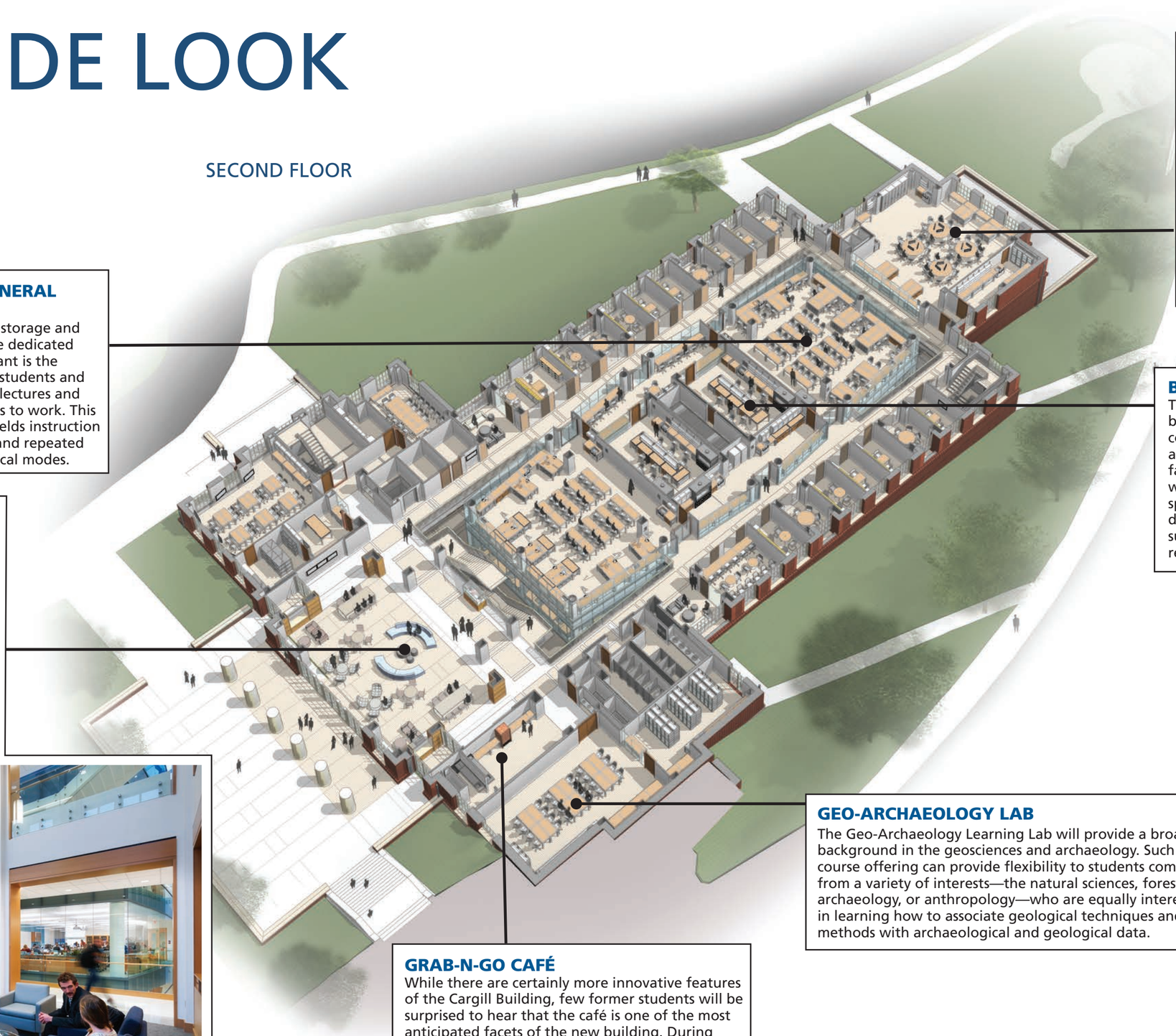
Special areas such as the Discovery Center, the digital theatre/planetarium, and the 3-D visualization lab will be powerful tools for teaching and for community outreach, particularly with regional school groups. Using multimedia, standing exhibits, and hands-on areas for exploration and discovery, these spaces will put science on display throughout the building and inspire a new generation. We hope you find similar inspiration in the following tour of the Cargill Building’s main features, both the technologically advanced and the more pragmatic, like the inclusion of café to serve busy students in need of a quick meal.

With this great opportunity, however, comes an equally great challenge: The proposed building will cost an estimated $72 million, far beyond what the College could afford on its own.

Fortunately, a charitable trust, established by Margaret A. Cargill in 1996, has stepped up to that challenge by agreeing to provide a three to one match, if the College can find partners to raise an additional $10 million by June 30, 2018. Contributing to the campaign will effectively quadruple the impact of your gift and ensure that generations of promising students are afforded transformational educational opportunities in health care and the natural sciences.

AN INSIDE LOOK

SECOND FLOOR



ORGANIC CHEMISTRY AND GENERAL BIOLOGY LABS

The general biology lab will have more storage and prep space, allowing the lab space to be dedicated to teaching and learning. More significant is the design of the space itself, which allows students and professors to gather together for short lectures and discussion before moving to lab benches to work. This more effective learning environment melds instruction and investigation and allows for rapid and repeated switching between these two pedagogical modes.

MAIN ENTRY

Entering the Cargill Building from the north, students, faculty, staff, and visitors will encounter a space intended to highlight the main feature of the building, transparency and light. The large, open seating area will offer students a chance to relax and connect with each other between classes, while keeping them in an environment that encourages inquiry and the exchange of ideas. The image below shows a similar space in a building constructed by Ballinger.

Ed Massery

INTRODUCTORY PHYSICS LAB

The new introductory physics lab will be an integrated lecture-lab room that can seat up to 30 students. Students will be seated in groups of three around large, round tables, with two groups per table, fostering discussion, group problem solving, and laboratory activities. Interactive white boards will enable students to share their work with the class as a whole. Traditional, short lectures will be interspersed with inquiry-based questions, group problem solving, and longer laboratory exercises.

BIOLOGY PROJECT LAB

The proposed biology project lab will better meet the needs of students conducting research as part of a class, as an independent study, or with a biology faculty member. It will allow students to work on their research in a designated space without having to relocate or disassemble it. In the summer, it can support undergraduate faculty-student research projects.

GEO-ARCHAEOLOGY LAB

The Geo-Archaeology Learning Lab will provide a broad background in the geosciences and archaeology. Such course offering can provide flexibility to students coming from a variety of interests—the natural sciences, forestry, archaeology, or anthropology—who are equally interested in learning how to associate geological techniques and methods with archaeological and geological data.

GRAB-N-GO CAFÉ

While there are certainly more innovative features of the Cargill Building, few former students will be surprised to hear that the café is one of the most anticipated facets of the new building. During early morning classes or late night study sessions, having access to a quick bite is something for which generations of Bereans have wished.


Exterior

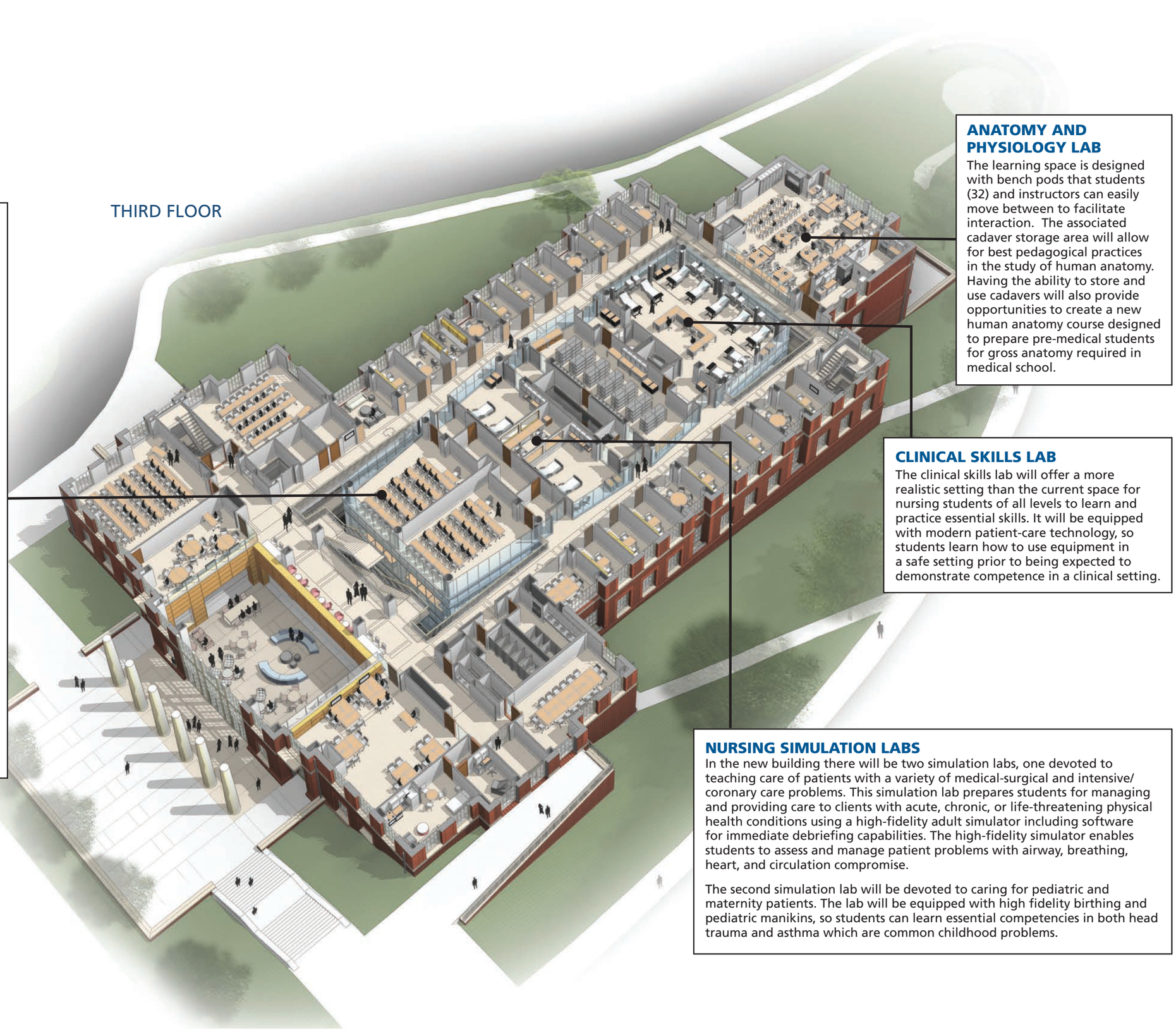

Interior

Ed Massey

CLASSROOMS

Classrooms in the Cargill Building will be similar to those pictured above in the Grove City College STEM Hall built by Ballinger. The glass walls put science on display, inviting students, especially non-majors, into the classroom space thereby familiarizing them with work in the sciences. By encouraging all students to engage with the sciences, the College hopes to better prepare its students for careers in and out of the sciences. Putting science on display will facilitate discussions across the discipline and enrich the total educational experience.

THIRD FLOOR



ANATOMY AND PHYSIOLOGY LAB

The learning space is designed with bench pods that students (32) and instructors can easily move between to facilitate interaction. The associated cadaver storage area will allow for best pedagogical practices in the study of human anatomy. Having the ability to store and use cadavers will also provide opportunities to create a new human anatomy course designed to prepare pre-medical students for gross anatomy required in medical school.

CLINICAL SKILLS LAB

The clinical skills lab will offer a more realistic setting than the current space for nursing students of all levels to learn and practice essential skills. It will be equipped with modern patient-care technology, so students learn how to use equipment in a safe setting prior to being expected to demonstrate competence in a clinical setting.

NURSING SIMULATION LABS

In the new building there will be two simulation labs, one devoted to teaching care of patients with a variety of medical-surgical and intensive/coronary care problems. This simulation lab prepares students for managing and providing care to clients with acute, chronic, or life-threatening physical health conditions using a high-fidelity adult simulator including software for immediate debriefing capabilities. The high-fidelity simulator enables students to assess and manage patient problems with airway, breathing, heart, and circulation compromise.

The second simulation lab will be devoted to caring for pediatric and maternity patients. The lab will be equipped with high fidelity birthing and pediatric manikins, so students can learn essential competencies in both head trauma and asthma which are common childhood problems.

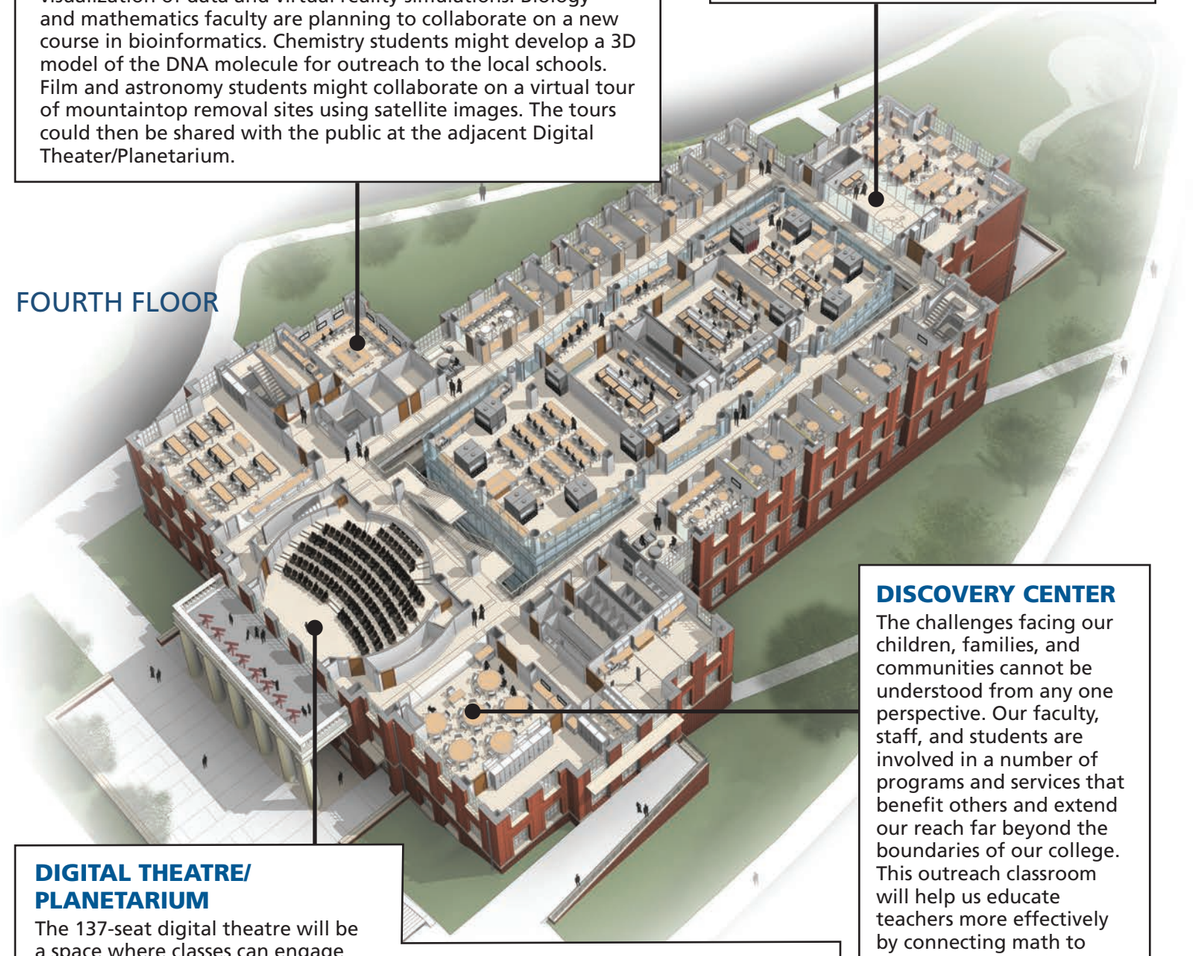
3D VISUALIZATION LAB

More and more often, cutting-edge research is centered around the analysis and visualization of large data sets. This advanced computational lab will allow students to develop skills in extracting and visualizing information from these data sets. We envision faculty from across campus, in programs as diverse as mathematics, computer science, biology, physics, technology, the visual arts, and communication and film utilizing this facility to develop courses and student projects in the analysis and visualization of data and virtual reality simulations. Biology and mathematics faculty are planning to collaborate on a new course in bioinformatics. Chemistry students might develop a 3D model of the DNA molecule for outreach to the local schools. Film and astronomy students might collaborate on a virtual tour of mountaintop removal sites using satellite images. The tours could then be shared with the public at the adjacent Digital Theater/Planetarium.

NUCLEAR MAGNETIC RESONANCE (NMR LAB)

The NMR Lab in the new building will be adjacent to the shared instrumentation lab. Incorporating NMR-based experiments and activities in general chemistry, organic chemistry, and biochemistry will show students connections between chemical concepts across a wide range of courses.

FOURTH FLOOR



DISCOVERY CENTER

The challenges facing our children, families, and communities cannot be understood from any one perspective. Our faculty, staff, and students are involved in a number of programs and services that benefit others and extend our reach far beyond the boundaries of our college. This outreach classroom will help us educate teachers more effectively by connecting math to other science and health disciplines and provide opportunities to conduct professional development for area schools.

DIGITAL THEATRE/ PLANETARIUM

The 137-seat digital theatre will be a space where classes can engage with 3D content ranging from trips through distant galaxies and explorations of individual molecules to journeys into the past to walk the streets of ancient cities. And, one day, perhaps students will work in partnership to create presentation to explore ongoing issues and questions using the skills learned in a variety of humanities and science classes. At right, students experience a presentation in a digital theatre at the Charles H. Townes Science Center at Furman University.

Ed Massery

Berea College Set to Join USA South

The USA South Athletic Conference has announced that Berea College has been accepted to begin the process of full membership within the conference. Berea, which is transitioning from NAIA to NCAA Division III status, will begin USA South play during the 2017-18 academic year.

"We are pleased to be joining the USA South conference, a group of schools that reflects the academic priorities of Berea College," said Berea's president, Lyle Roelofs. "This conference is capably led by an engaged council of presidents and is on a sound growth trajectory, which will provide attractive competitive challenges and opportunities for Berea's student athletes and coaches going forward."

Berea College currently offers seven men's sports (baseball, basketball, cross country, golf, soccer, tennis, track & field) and seven women's sports (basketball, cross country, soccer, softball, tennis, track & field, volleyball).

Mark Cartmill, director of athletics, said, "I am extremely excited for Berea College athletics to be joining the USA South. This is a major step in our transition into the NCAA Division III, which began two years ago. It provides an opportunity for our student athletes to compete against athletes from outstanding institutions."

In addition to Berea, Pfeiffer University in North Carolina has been accepted to begin the process of full membership within the USA South Conference. Current USA South member institutions include: Agnes Scott College, Averett University, Christopher Newport University, Covenant College, Ferrum College, Greensboro College, Huntingdon College, LaGrange College, Mary Baldwin College, Maryville College, Meredith College, Methodist University, (North Carolina), Wesleyan College, Piedmont College, and William Peace University.

In making the announcement, USA South Commissioner Rita Wiggs said, "We are pleased to welcome both Berea and Pfeiffer as the newest members of the USA South. Each has great leadership, are eager to become Division III members while already exemplifying many pillars of the Division III and USA South philosophy. We look forward to their coaches and student-athletes competing in the USA South."

Middletown School Alumni Reunite at Historic Berea School Site

By Tim Jordan '76

From 1927 until 1963, African American students in Berea attended the Middletown Consolidated Rosenwald School. In July, a group of 51 former students plus 40 non-alumni who included parents, spouses, and siblings of alumni, returned for an eventful reunion, organized by a group of the school's alumni.

Sharyn Mitchell, research services specialist in the Special Collections and Archives of the Hutchins Library at Berea College, is an alumna of the Middletown School and an organizer of the reunion events. She says reunion guests also enjoyed optional activities, such as Trolley tours of the Berea, Middletown, and Farristown communities, which are of particular interest to the school's alumni.

According to Mitchell, this was the first reunion for former students of the Middletown School. "It was an enjoyable opportunity to meet old friends, gather stories and preserve the histories of three generations of Madison County's African American students," Mitchell said, noting that the School's youngest alumnus is now 60 and the oldest is 103, although that individual was unable to attend.

The earliest graduate present for the reunion was Elizabeth Ballard Denney, a member of the class of 1938. The class of 1960 had the most alumni returning, with four members attending. Alumni traveled from far and wide, including New York, Pennsylvania, Illinois, Ohio, and Tennessee, to gather and rekindle old friendships and recall fond memories. Regional alumni from Paris, Midway, Lexington, Richmond, and Berea also attended.

"One of our goals was to see the building, a Rosenwald School, designated a historic landmark," Mitchell said. "Relatively few of these structures are still standing. This was a celebration of our heritage"

During the Reunion, Mitchell said organizers gathered additional archival material through oral history interviews and storytelling sessions. The school operated during a significant era in American History, including the Great Depression, several wars and the Civil Rights movement, making archival information valuable in recording local history. She states, "Students from the school went on to become veterans, general laborers, religious leaders, legal, medical, and educational professionals, and corporate executives. The quality education acquired at Middletown became the foundation on which this and other communities was built."

Constructed in 1927 and based on the four-room, four-teacher design typical at Rosenwald schools for black children throughout the south, the Middletown School was one of more than 100 Rosenwald schools in Kentucky. Building expenses came from area residents and from the Julius Rosenwald Fund (which coincidentally was directed by Edwin Rogers Embree, the grandson of John G. Fee, an ardent abolitionist who founded Berea College.) The land for the school, along with the electrical and water lines to the school building, were provided by Berea College. Construction of the Middletown School allowed for the consolidation of several one-room schools for African American students in the southern part of Madison County. For parts of five decades (from the 1920s to the 1960s), the Berea Consolidated School for African American children served students in grades one through eight. Later, the building served as a community center before it was abandoned.

Crystal Wylie '05

Elizabeth Ballard Denny, class of 1938 (oldest class represented). Later, Denny became first African American admitted to Berea College after the Day Law was amended.

After the building stood vacant for many years, Berea College completed an eco-sensitive renovation of the structure in 2006-2007, retaining much of the original materials and features of the building. Modern amenities, such as indoor restrooms replacing the original privies, energy-efficient new windows placed in the original openings, and an elevator with an accessible, exterior entrance, equip the building for 21st century uses. Following the renovation, the School has housed the educational services of GEAR UP, a program designed to encourage schoolchildren from low-income families to consider and prepare for college, and the offices of Partners for Education.

Two Berea Alumni Named College Trustees

Rocky S. Tuan and Betty H. Olinger were elected to the Berea College Board of Trustees at the Board's April meeting. Both are alumni of Berea College.


Dr. Rocky S. Tuan

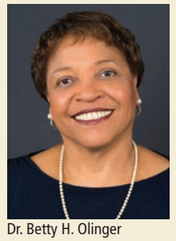
Dr. Tuan, of Pittsburgh, is the founding director of the Center for Cellular and Molecular Engineering at the University of Pittsburgh School of Medicine where he also serves as the Arthur J. Rooney, Sr. Chair Professor and executive vice chairman of the department of orthopedic surgery, with a joint appointment as professor in the department of bioengineering.

Tuan directs a multidisciplinary research program, which focuses on orthopedic research as a study of the biological activities that are important for the development, growth, function and health of musculoskeletal tissues, and the translation of this knowledge to develop stem cell and biomaterials based technologies that will regenerate and/or restore function to diseased and damaged skeletal tissues, particularly related to trauma and injuries. He also is co-director of the Armed Forces Institute of Regenerative Medicine, a nationwide research consortium committed to the development of regenerative therapies for battlefield injuries.

A native of Hong Kong, China, Tuan completed his undergraduate degree in chemistry from Berea College. He received his Ph.D. from Rockefeller University in New York and conducted his research fellowship at Harvard Medical School's department of orthopedic surgery and medicine at Children's Hospital and Massachusetts General Hospital, respectively, in Boston.

Dr. Tuan's career has included professorial appointments at the University of Pennsylvania, Thomas Jefferson University, George Washington University and Georgetown University, as well as leadership positions at the National Institutes of Health. At the University of Pittsburgh, Tuan was honored with an appointment as Distinguished Professor of Orthopedic Surgery in 2014, and received the Chancellor's Distinguished Research Award in 2015. He is also a recipient of the Carnegie Science Award in 2016. Dr. Tuan has published over 450 research papers, has lectured extensively, and is currently editor of the developmental biology journal, BDRC: Embryo Today, and founding editor of Stem Cell Research and Therapy.

"If 'Home is Where the Heart Is,' then being elected to Berea's Board of Trustees is truly like coming home! It is both an honor and a privilege to have the opportunity to give back to the institution that provided me with the most transformative experience of my career," Tuan said. "I look forward with purpose to being an active member of Berea's community as it furthers its Great Commitments in the 21st century."


Dr. Betty H. Olinger

Dr. Betty H. Olinger, of Berea, has an extensive background in higher education and nursing. Most recently she retired after a decade serving as chair of the school of nursing at Kentucky State University, with responsibilities for administrative operations, budget, policy, student records, and accreditation processes, among others. Olinger previously served as assistant vice president of academic affairs at Kentucky State University, division director for the department of public health, and program coordinator for the Science Focus program at Berea College.

Dr. Olinger has held teaching appointments and advised nursing students at Newport Hospital School of Nursing, Berea College and Kentucky State University, where she was professor of nursing. Her publications include topics on strategies for increasing nursing workforce diversity and the recruitment and retention of nursing students. During her career, Dr. Olinger has presented widely at regional and national nursing conferences and she has been successful in obtaining numerous grants for equipment for nursing education and scholarships for disadvantaged nursing students.

Dr. Olinger is a member of several professional organizations, including the American Nursing Association, the National League for Nursing, the Kentucky Nursing Association, and the Kentucky League for Nursing. She has held numerous offices on the state level. She is active in community and civic engagement locally and regionally. She has served as a member and chair on the Berea Hospital board of directors and member and president of the Berea Kiwanis Club. In 2004, Olinger was appointed by the mayor to the Berea Planning and Zoning Board on which she continues to serve. She also is currently serving as chair of the Berea Housing Authority, a post she has held since 1991.

Dr. Olinger is the recipient of a number of academic and community awards and recognitions. She received her Bachelor of Science in Nursing at Berea College, completed her MSN, EdD, and post-doctoral studies at the University of Kentucky.

"I am excited and humbled by the appointment to the Berea College Board of Trustees," Olinger said. "As a high school graduate from Lancaster, KY, I had very limited resources to obtain my baccalaureate degree in Nursing. Berea College provided me with a foundation for critical thinking, a love and passion for learning, and a tremendous work ethic. This foundation provided me with the skills to help others and to recognize the obligation for giving back. As a product of Berea College, I – and countless other graduates – have been able to touch the lives of many students. This was and continues to be 'the Berea Way.'"

Berea Named Best in Kentucky

Money Magazine published a list of the Best College in Every State, naming Berea as Kentucky's best college.

In a separate ranking, Money put Berea College #1 in the 50 Most Affordable Private Colleges.

Money profiles Berea as a standout for affordability, noting that it provides an education accessible to students with limited economic resources. Students can graduate from Berea College debt-free. For those who accrue debt, the average is only $5,750.

In being named the Best School in Kentucky, Berea College joins other notable institutions such as Harvard, Duke, Princeton, Dartmouth, and Yale, which made the list for their respective states.

Money's annual Best Colleges rankings are designed to help families find a great college at a great price. For many students heading off to college, that means selecting a campus within a few hours of home. In fact, eight in 10 college freshman attend a school that's less than 500 miles from home so Money compiled a list of the highest-ranked college in each state. (Note – Just 49 schools made the list because two states — Alaska and New Mexico — did not have any colleges that made this year's rankings, but the District of Columbia has one.)

HOMECOMING 2016
NOVEMBER 11-13

CELEBRATING THE SPECIAL REUNION CLASSES OF 1991, 1996, 2001, 2006, 2011, AND 2016

CONNECT. ENGAGE. SUPPORT.

THURSDAY, NOVEMBER 10
Great Conversations

FRIDAY, NOVEMBER 11
Alumni Awards Presentation and "State of the College" Address

Celebrate our honorees:
- **Dr. Charles Haywood '49**
  Distinguished Alumnus Award
- **Christian Motley '09**
  Outstanding Young Alumnus Award
- **Charles Badger '11**
  Outstanding Young Alumnus Award

Black Student Union Pageant

Block Party

SATURDAY, NOVEMBER 12
Agriculture and Technology Breakfasts

Departmental Receptions

BereaFEST

Black Music Ensemble Concert

Boone Tavern Alumni Reception

Homecoming Dance sponsored by CAB

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ALUMNI RELATIONS

ALUMNI CONNECTIONS

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Andrew Hamilton '96, Past President, Texas
Jackie Collier '80, Associate Vice President for Alumni Relations, Kentucky

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Charles D. Crowe '70, Tennessee
Robert Hawks '77, Georgia
Dr. Betty Hyatt Olinger '69, Kentucky

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Betty Jean Hall '68, North Carolina
Adam Hardin '97, Ohio
Amy Burkhardt Harmon '99, California
Destiny Harper-Lane '06, Texas
David Harrison '00, Kentucky
Katherine Silver Kelly '91, Ohio
Tedd Masiongale '88, Missouri
Frank Polion '90, Kentucky
Elizabeth Mullins Robinette '82, Indiana
Evan Robinson '08, North Carolina
Deborah Byrd Thomas '80, Alabama
Dr. Peter Thoms '55, Michigan
Tamika Weaver '97, Georgia
Dr. Ballard Wright '59, Kentucky

YOUNG ALUMNI ADVISORY COUNCIL 2016–17

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Martina Jackson-Haynes '11, Executive Vice President, Kentucky
Joe Saleem II '08, President-Elect, Kentucky
Luke Sulfridge '03, Past President, Ohio
Lisa Colletti-Jones, Coordinator of Student, Young Alumni and Volunteer Engagement Programs

MEMBERS AT LARGE
Ehis Akhetuamhen '11, New York
Jacob Burdette '15, Kentucky
William E. Cook III '06, Ohio
Susan Jones '02, North Carolina
Wayne Jones '15, Massachusetts
Justin Kindler '05, Florida
David Kretzmann '14, Virginia
Emily LaDouceur '04, Kentucky
Ashley Miller '05, Kentucky
Jamie Nunnery '13, Kentucky
Cory Payton '15, Kentucky
Brittany Suits '14, Georgia
Katy Jones Sulfridge '03, Ohio
Djuan Trent '10, New York
Lara Zavalza-Neeson '13, Kentucky

SUMMER REUNION 2016


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1 Deborah Thomas ’80 and Carl Thomas ’78 host the Sweetheart Breakfast.

2 Phillip Harrison, Acad ’37, ’41 and Fanny Harrison ’46 enjoy a ride on a golf cart.

3 Class of 1966 celebrates their 50th reunion during their class luncheon.

4 1976 alumni reminisce during their class luncheon.

5 Aumni enjoy food and mingling during the Alumni Reception at Boone Tavern.

6 Nursing alumni take a group photo during their reception.

7 Class of 1966 alumni connect at the Picnic on Campus quad.

8 Alumni and faculty gather at the Computer Science Reception.

9 The awards for our alumni awards recipients. check out our recipients on page 37.

10 Alumni from the class of 1966 attend a 50th Reunion Breakfast hosted by First Lady Laurie and President Lyle Roelofs.


6


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10

SUMMER REUNION 2016

SUMMER REUNION 2016

Class photos and names can be found at alumni.berea.edu/summerreunion

DR. MILES HAYES '57
Distinguished Alumnus Award

Miles Hayes, originally from western North Carolina, graduated from Berea College in 1957 with a degree in geology. He went on to earn his master's degree in geology from Washington University at St. Louis and a Ph.D. in geology and marine science from the University of Texas. Throughout his long career, Miles has been awarded the Francis P. Shepard Marine Geology award by the Society of Economic Paleontologists and Mineralogists and named one of the four Legends of Sedimentology by the Houston Geological Society. In 1977, he founded Research Planning Inc., which serves as a research leader in coastal science and technology. Miles has participated in over 100 scientific expeditions on all seven continents, published over 250 scientific papers, published and presented over 100 abstracts at professional meetings, has authored six books plus three that are currently in press, and has created Environmental Sensitivity Index (ESI) atlases for 24 coastal regions around the globe.

JANIE ADAMS FRAZIER '72
Alumni Loyalty Award

Janie Adams Frazier was raised in Whitesburg, Kentucky, and was encouraged to attend Berea College by a high school biology teacher. She entered Berea College in 1968 and graduated in the top 10% in 1972 with a degree in history and secondary education. During Janie's time at Berea, she received an award for senior female citizenship, was a member of Pi Kappa Pi and Pi Gamma Mu, and served as a campus tour guide for four years. She went on to complete a master's degree in secondary education from Morehead State University, and had a 40-year career with the Social Security Administration (SSA). She received many awards including the Commissioner's Citation, which is granted to individual employees who have made a superior contribution to the SSA. Over the years, Janie has remained involved with Berea College by serving as a member of the Alumni Executive Council, as Reunion Giving Chair for her class, hosting Berea College presidents in Whitesburg, and assisting Admissions with college nights at the local high schools.

FRED BAKER, HON '16
Honorary Alumnus Award

Fred Baker, better known as "Mr. Fred," grew up in Winchester, Kentucky. He attended George Rogers Clark High School. Mr. Fred began working for IBM/Lexmark in 1978 and retired after 30 years. During his time at IBM/Lexmark, he worked on the IBM Selectric Typewriter, in the distribution area, and in the inkjet clean room burning images on chips for the printers. After retiring in 2008, Mr. Fred began working at Boone Tavern as an ambassador. He has touched many lives during his time working at Boone Tavern and educates visitors on Berea College's mission. He has spent his time assisting Berea College students and received the International Friendship Award from Berea College's Center for International Education. The international students nominated Mr. Fred for this award. It is given to someone who is a good friend of international students and supports global diversity and kinship. In 2015, he also received a Stars of Industry Award for Guest Service Excellence at the Front Desk. Mr. Fred has had a tremendous impact on Berea College and the community. His philosophy is "everybody is somebody to Mr. Fred."

MAKE YOUR PLANS! MARK YOUR CALENDARS!

Summer Reunion

JUNE 9-11, 2017

SPECIAL REUNION CLASSES:
1947, 1952, 1957,
1962, 1967, 1972,
1977, 1982,
and 1987

alumni.berea.edu/summerreunion

The Berea College Alumni Association enjoys hearing from Bereans from all over the U.S. and the world. The "Class Notes" section of *Berea College Magazine* (BCM) reports verifiable news that has been sent to the Association by alumni. BCM reports the news you wish to share with your alumni friends and associates. "Class Notes" reports careers, weddings, retirements, births and other items of importance to our alumni. Please include your class year and name used while attending Berea. Notes may be edited for style and length. Please note that our printing deadlines may delay the appearance of your class news. While we will make every effort to put your information into the next issue of BCM, some delays due to printing schedules may occur. We appreciate your understanding. Submit class notes and photographs via email: alumninews@berea.edu.

1955

Molly Wetzel and eight of her classmates met in Berea June 2015 for their 60th class reunion: "We are older in years, but not in spirit. We are all retired now and still have a wonderful time each June."

1957

Huey Perry led a discussion on his published works in the Archives and History Library at the Culture Center, State Capitol Complex in Charleston on April 21, 2016. Huey's first book, "They'll Cut Off Your Project: A Mingo County Chronicle," was published in 1972. His second book, "Blaze Starr: My Life as Told to Huey Perry," was published in 1974 and was eventually made into a movie, "Blaze," starring Paul Newman and Lolita Davidovitch. His presentation can be viewed by searching "Huey Perry" on YouTube or at https://youtube/scXhQHVSSt8.

1958

Sue Hile Atkinson and **Marion "Marty" Atkinson** are celebrating 50 years as residents of DeLand, Florida with their new best friend, Blue, a black Labrador retriever. They continue to enjoy retirement.

1960

Dr. Pauline Rose Clance gave a keynote presentation to the National Institutes of Health for affiliated graduate students on January 12, 2016.

1961

Nancy Rose released "Backstroking All Night in the Starpool," a 62-poem collection that celebrates nature, friends, family, and music and offers insights about life, death and the hope "for what's unfolding." She had a poetry reading and book signing at the Prestonsburg campus of the Kentucky Community & Technical College System on April 21, 2016.

1962

Wallace Cantrell and his wife, Sandy, have moved to 4040 Naples Drive, Columbus, IN 47203. Berea alumni, especially the Class of 1962, are welcome to visit them.

Sherrena Jones Forester continues to live in Springfield, Virginia, and is active in national, state and local politics, volunteer work, and travel. She has initiated scholarships for local students studying science or music in memory of her late husband, **Dr. Donald W. Forester '59**.

1964

Birth: twin daughters, Parker Ray Newton and Payton Lee Newton, to Cherie Clemo Newton and Michael Newton on May 24, 2016. Parker and Payton are the granddaughters of **Carole Clemo** and Ray Clemo.

Catherine Castle is retired and living in Cincinnati. She is catching up on travels to visit old friends in Asheville, North Carolina; Amherst, Massachusetts; Estes Park, Colorado; and Park City, Utah. She is enjoying her two grandchildren, son and daughter-in-law in Port Orchard, Washington.

1967

Leon Alder said, "Thanks to Berea, I am a first generation college graduate." His five daughters went on to graduate from College of William and Mary (Virginia), Virginia Tech, Clinch Valley College of the University of Virginia (now UVa-Wise), and two at James Madison University (Virginia). His twin sons will graduate from East Tennessee State University after also attending Virginia Highlands Community College. One of his daughters teaches graduate courses at East Tennessee State.

1968

Malcolm Edward Kitchen is enjoying retirement, grandchildren and distant travel.

Tom Watts and his wife, Karen, have enjoyed extensive travel since their retirement. Tom has been very active with the county library system, having served as board president since 1995. One son, Brian, lives and works in information technology in Charlotte, North Carolina.

1970


Eugenia (Jenny) Lovedahl Johnson '70

Eugenia (Jenny) Lovedahl Johnson retired September 1, 2015 after 15 years as director of Swain County Center for the Arts in Bryson City, North Carolina. Prior to that she was an instructor in the graphic arts and advertising design curriculum at Southwestern Community College in Sylva. She would enjoy hearing from classmates and can be contacted at 991 Big Horse Branch Road, Almond, NC 28702, where she lives with her mischievous cat, Kasey.

1974

Diana Shepherd Arnold was approved for a second three-year term to serve District III on the Shelby Energy Cooperative's Board of Directors. District III encompasses Trimble County and portions of Carroll and Oldham counties in Kentucky. During her first term, Diana earned the highest level of certification through the National Rural Electric Cooperative Association.

1976


Bill Clement, '76

Bill Clement retired in 2015 after 30 years of teaching. He joins his wife, **Rhoda Marcum Clement '77**, who retired

after 30 years working as a public health nurse. The Clements can be reached at billrhodaclement@centurylink.net or brclement76@gmail.com.

1980

Sherry Brown Fields, a teacher at Terra Alta/East Preston Elementary School, was honored as Teacher of the Year by the Preston County Board of Education in Terra Alta, West Virginia.

1983

Hal Haynes Jr. earned a doctoral degree in educational leadership. His dissertation was titled "Spirituality and Student Engagement at a Small, Church-Related Private College."

David Meier founded Glenns Creek Distilling, LLC just outside of Frankfort, Kentucky, on the site of the Old Crow Distillery. The distillery was abandoned in 1985, although Jim Beam still owns the brand and several of the old warehouses. Glenns Creek Distilling produces hand-crafted Kentucky bourbon as well as Caribbean-influenced rum. Visitors are welcome for tasting and tours. For details, go to glennscreekdistillery.com.

1985

Birth: a son, Rayden Neil Edmonson, to Rachel Cook, daughter of **David Neil Cook** and Robin Chandler, and **Beth McKenzie '84** on March 21, 2016.

1986

Kelly S. Boyer joined Citibank, N.A. in July 2014 for the purpose of creating a Federal Housing Administration multifamily lending platform. Citibank was recognized as the largest affordable housing lender in the country.

Samantha S. Earp was named chief information officer at Smith College in Northampton, Massachusetts and began her job September 1, 2016. Prior to her new position, she worked at Harvard University as managing director for academic technology services, and then as executive director of HarvardX, an online learning platform.

Evelyn Joran-Thiel resides in Bluemont, Virginia and works at the University of Virginia Children's Hospital as a pediatric oncology nurse practitioner.

Karen Thompson Redding has been a practicing veterinarian for 25 years at Cedar Heights Animal Clinic outside of Bardstown, Kentucky. She earned a master's degree and a Doctor of Veterinary Medicine degree from Auburn University in 1990 and 1991 respectively. Her husband, Mark, works as a consultant at Eli Lilly and Company. They have three daughters: Kayla, who graduated from Milligan College in May; Lauren, who is in a pre-veterinary program at Murray State University; and Megan, who attends Bullitt Central High School.

1989

Genia McKee is working in the College of Public Health at the University of Kentucky.

1990

Robin Salyer works at Johnson County School in Paintsville, Kentucky, as Head Start director and community education director.

1991

Katherine Silver Kelly was awarded the Morgan E. Shipman Outstanding Professor Award for 2016 at Ohio State University, Michael E. Moritz College of Law. She is assistant clinical professor of law and director of academic support there. The recipient of this award is chosen by the graduating class and is the speaker at the hooding ceremony where she hooded all of the graduates.

Glenn Manns, a regional social studies consultant with the Kentucky Department of Education, received the University of Louisville McConnell Center's inaugural Henry Clay Cup for Exemplary Service in Civic Education. Glenn directed a coordinated statewide civics initiative in Kentucky, as well as worked internationally to share and implement teaching curriculum in other countries' civics frameworks.

Amy Carter Shehee '91 and **David Shehee '89** celebrated their 25th wedding anniversary on August 3. David is superintendent of water quality for Kentucky American Water and Amy is director of gift planning at Berea College. They have one child, Luke Alexander, who is 14.

1993

Dr. Adam Howard was promoted from associate professor to full professor April 15, 2016 by the Colby College Board of Trustees. Howard's scholarship focuses on issues of social class in education, more specifically the role of privilege in shaping education access, opportunity and students' sense of self.

Tanya Lawson Lowry was featured in an April 3, 2016 article "BTW Center making an impact in Hamilton," published in the Journal-News (Butler County, Ohio) about her work as the director of the Booker T. Washington Community Center.

1995

Will Jones was appointed the 14th president of Bethany College in Lindsborg, Kansas in May 2016. Prior to his appointment, Will served as vice president for external relations at LaGrange College in LaGrange, Georgia, where he launched a branding and marketing campaign that won regional Emmy and Addy awards, grew the undergraduate population by 25 percent, and raised the alumni-giving rate by 58 percent.

Larry Swartz is operating a small farm in Garrard County, Kentucky, and is direct marketing organic grass-fed meat.

2005

Sarah Poole Farmer completed her Ph.D. in religion at Emory University in Atlanta, Georgia. She recently defended her dissertation entitled, "Hope in Confinement: Towards a Pedagogy of Restorative Hope" that explores the concept of hope with formerly incarcerated women. She recently accepted a position on faculty at Yale Divinity School as an associate research scholar in the Yale Center for Faith and Culture.

Suzie Loveday-Fink earned a Master of Business Administration degree from Eastern Kentucky University in May 2016.

Sarah Watson Khan was promoted to district registrar at New Trier Township High School in Winnetka, Illinois.

Ashley Miller won the Guy Stevenson Award for Excellence in Graduate Studies, the highest honor the University of Louisville gives to graduating doctoral students. As the recipient, Ashley carried the School of Interdisciplinary and Graduate Studies banner at the doctoral hooding and graduation ceremony and the university-wide commencement ceremony on May 14, 2016. Ashley earned both her master's and doctoral degrees in nursing at UofL.

2006

Birth: a son, Sawyer O'Brien Thomas, to **Johnna Whittamore Thomas** and Jon Thomas, on December 4, 2015.

2007

Eric Diehl, a musician and piano maker, was featured in a commercial for Steinway & Sons, a renowned American and German piano company founded in 1853. Eric is the son of **Jeff '79 and Donna '79 Diehl**, and he works for Steinway. View the commercial here: http://steinway.com/about

Married: Maky Tekle Haile to Ermias Alemu on January 17, 2016. Classmates **Aysen Nergiz, Faustino Hernandez '08, Nitchiko Berugoda, Paloma Martinez, Rosa Mendoza** and **Virginia Senkomago** met in Ethiopia for the wedding. Maky and Ermias reside in Washington D.C.

Aysen Nergiz, Paloma Martinez, Faustino Hernandez '08, Rosa Mendoza, Maky Tekle Haile and **Nitchiko Berugoda**, traveled to the town of Lalibela in northern Ethiopia and posed in front of the famous UNESCO World Heritage Site, the Church of Saint George.

Aysen Nergiz, Paloma Martinez, Faustino Hernandez '08, Rosa Mendoza, Maky Tekle Haile and Nitchiko Berugoda

Pictured is Necla Ben '68, Nebil Ragip Ilseven '81, Aysen Nergiz '07, Tran K Nguyen '16, and Miriam Cahill.

Berea College Alumni and Friends of Turkey met December 2015 for dinner in Istanbul. For future events with Berea International Alumni in Turkey, contact **Aysen Nergiz '07** at naysen@gmail.com.

Birth: a son, Camden Warner, born to **Bethany Robinson Warner** and **Chad Warner** on February 5, 2016. Bethany and Chad have been married since 2011 and the family resides in Berea with Camden's big brother, Clayton.

Clayton and Camden Warner

2008

Birth: a son, Maclean Emmett Scott, to **Rebecca Duley Scott** and **Jacob Scott** on June 12, 2016.

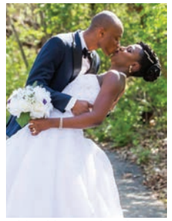
2009

Birth: a daughter, Esther Nicole Miller, to **Jayme Spaugh Miller** and **James A. Miller '06** on July 11, 2015. Esther joins big sister, Hannah, and big brothers, Micah and Titus. James is moving to Guatemala for a year to do mission work.

Matthew Baunack Williams '10

2010

Matthew Baunack Williams graduated from Harvard Graduate School of Education with an Ed.M. in international education policy in 2013. He is currently the director of education at WorldTeach and resides in Cambridge, Massachusetts.



Ehis Akhetuamhen '16 and Ade Ighodaro

2011

Married: Ehis Akhetuamhen to Ade Ighodaro on April 16, 2016 in Louisville, Kentucky. Ehis is a finance associate with Goldman, Sachs & Co. in New York and Ade is a final year student at Yale Medical School. The couple resides in New York City, New York.

Birth: a son, William Joseph Windley, to **Rachel Morgan Windley** and David Windley on May 9, 2016.

2014

Birth: a son, Admiral M. Blaney V, to **Stephany Hernandez Blaney** and **Admiral M. Blaney IV '18** on April 5, 2016. The couple resides in Berea with their new baby boy.

Admiral M. Blaney V

Danielle Schaper was awarded a National Science Foundation (NSF) Graduate Research Fellowship and is currently a third-year graduate student at the University of Kentucky where she is pursuing her Ph.D. in experimental nuclear physics. Her scientific interests lie in precision measurements and the development of scientific instrumentation. She is a member of an international collaboration which seeks to measure effects of time reversal invariance using neutron transmission through a polarized nuclear target; her graduate work is to develop a neutron detector for this project. She very much attributes her NSF success to the experience she had in the Berea College physics department, and would like to especially thank her undergraduate advisor, Martin Veillette, for the years of his time and patience.

Danielle Schaper '14

Birth: a daughter, Easton Emory Shanks, to **Emily Wallace Shanks** and Jordan Shanks on April 13, 2016. The couple resides in Knoxville with their new baby girl.

Easton Emory Shanks

PASSAGES

Faculty and Staff

Marlene Ellis Payne '61, of Berea, Kentucky, passed away May 10, 2016. After graduating from Berea, she earned a master's degree in early childhood development from Iowa State University. Marlene taught at Berea College for more than 30 years, and was co-founder of and helped integrate the college's Child Development Laboratory. She served for many years on the boards of Hindman Settlement School, Buckhorn Children's Center and Berea Community School. Marlene was a Fulbright Scholar in Norway and served as a teacher trainer in Malaysia with the Peace Corps. She is survived by her husband, **Dr. John V. Payne '61**, two children, **Kennett Payne '00** and **Deborah Payne '02**, four siblings, **Debbie Ellis '79**, **Kennett Ellis '76**, Janelda and James, and a host of loving family and friends.

Lester Pross, Hon '92, of Berea, Kentucky, passed away April 20, 2016. He joined the Berea College faculty in 1946 after earning a bachelor's degree in 1945 and a master's degree in 1946 from Oberlin College in Ohio. Les taught drawing, painting, design, art history, Islamic art and Asian art. He retired from Berea College in 1991 after 45 years of service and returned to teach painting classes in 2000. Les was also a visiting associate professor at Union College in Barbourville, Kentucky. He helped found the Kentucky Guild of Artists and Craftsmen (KGAC) in 1961, served as its first president and then helped establish the annual KGAC Craft Fairs that are held every October at Indian Fort Theatre. Les was commissioned as an honorary Kentucky Colonel for his work with the Guild. He also served as chairman of the advisory board of the Berea College Appalachian Museum from 1969 to 1984. A collection of his oil paintings were exhibited at the Smithsonian from 1981 to 1983. He was preceded in death by his wife of 62 years, **Mary Louise Pross, Hon '92**, and is survived by his children, David, Mark, and **Susan Laurel Pross Kramer '81**, and their spouses, Cynthia, Marty and **Stanley Kramer '60**, respectively, five grandchildren and a host of loving family and friends.

Bea Combs Riley, Fd '66, of Berea, Kentucky, passed away May 5, 2016. She was a retired Sodexho Food Service employee, having worked for many years at Berea College food service and Boone Tavern where she was affectionately known as "Aunt Bea" to many of the college students. She was a member of Pilot Knob Baptist Church. Bea is survived by her children, Rusty, David and Andy, five grandchildren, six great-grandchildren, and a host of loving family and friends.

Anne Cobbs Smith Weatherford, Hon '82, of Black Mountain, North Carolina, passed away June 6, 2016. She was preceded in death by her husband, **Dr. Willis D. Weatherford Jr., Hon '82**, the sixth president of Berea College. Anne earned a bachelor's degree in math from Swarthmore College, where she met Willis, and then a master's degree in religion from the Lexington Theological Seminary. While first lady of Berea College, she taught basic math to incoming students and entertained numerous dignitaries, guests, students, faculty and board members. Anne served on the board of Hindman Settlement School, was on the Kentucky Human Rights Council for 10 years and was a member of the Berea Peace Makers. After moving to Black Mountain, she worked as the director of Christian education at Grace Church in Asheville for 10 years. Anne is survived by her children, **Edie Hunt '79 (Mick Hunt '79)**, **Julia Weatherford '79**, **Willis D. Weatherford III '83 (Jane Weatherford '84)**, **Susan Weatherford '85** (Brian Cole), **Alice Downes '84 (Jeffrey Carroll Downes '84)**, two siblings, 16 grandchildren, 13 great-grandchildren, and a host of loving family and friends.

1930s

George Washington Lacy, Acad '33, of Stacy Fork, Kentucky, passed away May 21, 2015. He was a retired Morgan County school teacher of 31 years, a farmer, a member of the Wells Chapel Church of God of Stacy Fork and Greenville Masonic Lodge 655 of Caney. George valued education and was passionate about English literature, often reciting poetry. He is survived by five children, Terry, **Roger Lacy '69**, Perry, Carole and Eileen, 12 grandchildren, 11 great-grandchildren, two step great-grandchildren, three siblings and a host of loving friends and family.

Bertie B. Cutler '35, of Camarillo, California, passed away May 22, 2015.

Dr. Grant F. Begley '39, of Fort Worth, Texas, passed away June 6, 2016. After graduating from Berea, he earned his doctorate at Tulane Medical School before serving in the Army Medical Corps at the end of WWII. After the war, Dr. Begley moved to Fort Worth and became a partner in the Urology Clinic. In 1976, he was chosen for the prestigious Gold Headed Cane Award by the Tarrant County Medical Society. Dr. Begley loved to hunt, swim, read and play handball. He also was a skilled woodworker, and a good storyteller who took delight in reciting limericks. Dr. Begley was a member of First Presbyterian Church for 66 years where he was an elder and Sunday school

teacher. He is survived by his wife of 35 years, Joy, eight children, 13 grandchildren and eight great-grandchildren.

Evelyn "Doopie" Arnetta Hopkins '39, of Roanoke, Virginia, passed away May 1, 2016. After graduating from Berea, she taught at Davy Elementary School until her retirement in 1974. Evelyn was chosen by the Davy Women's Club for Teacher of the Year in 1960 and was "runner up" for the honor. She was active in the Rebekah Lodge, the Thera Rho Girls and worked with Marytown Community Church. Evelyn is survived by two sisters, Ruth and Louise, as well as several nieces and nephews.

Margaret Helen Jackson, Acad '39, of Berea, Kentucky, passed away March 6, 2011. She was a retired GTE telephone operator and lifelong member of Glades Christian Church in Berea. Helen is survived by two daughters, Judy and Karen, five grandchildren, 12 great-grandchildren, and a host of loving family and friends.

Nancy Aria Mullins, Acad '39, of Campbellsville, Kentucky, passed away June 15, 2015. She was preceded in death by her husband of 60 years, **Charles John Mullins '39**, and is survived by three children, Betty, Marietta and George, eleven grandchildren, 19 great-grandchildren, three siblings and many extended family and friends.

Doris Robinson Rominger '39, of Berea, Kentucky, passed away March 25, 2016. She was a member of First Christian Church, a bookkeeper and served for many years as treasurer of the Berea Ministerial Association. Doris is survived by her son, Paul, and grandson, Sherman.

1940s

Cherry Churchill Belanger, Acad '40, of Beverly Hills, California, passed away December 9, 2014. She was the daughter of David Carroll and Eleanor Churchill who founded the renowned Churchill Weavers hand-weaving company in Berea. After a modeling and acting career in New York where she met her husband, Paul Belanger, the family moved to Beverly Hills. Cherry earned a master's degree at California State University, Northridge and taught with the Los Angeles Unified School District for 28 years. She founded Boy Scout Troop 100, Girl Scout Troop 727, was honored with "Cherry Belanger Day" in Beverly Hills in 1976, and earned the Elizabeth H. Brady Teacher Award in 1997. Cherry is survived by her children, Peter and Karen, her sister and five grandchildren.

Violet Virginia Barber '41, of Middletown, Ohio, passed away January 18, 2016. She worked as a teacher for 40 years, the last 20 of those at Middletown High School. Virginia was a member of First United Methodist Church, the Mary Harrison Church Circle, the Women Teachers Club and the Guided Study Literary Club. She is survived by her children, Sam, Mary and Jennifer, two sisters, **June Morton Perry '44** and **Pansy Howard '46**, seven grandchildren, 11 great-grandchildren and several nieces and nephews.

Doris Pierce Crabtree, of Saint Augustine, Florida, passed away October 1, 2015. She attended Rhode Island College and was a licensed realtor, actress, poet, librarian, Cub Scout and Girl Scout leader, PTA member, school event coordinator and community volunteer. Doris is survived by her husband, **Carl Crabtree, Acad '41**, a sister, two children, three grandchildren and five great-grandchildren.

Fay Mills Hale '41, of Oak Ridge, Tennessee, passed away May 23, 2016. After graduating from Berea, Fay taught for 31 years as an elementary teacher in Oak Ridge Schools. She was a 50-year active member of Alpha Epsilon chapter of Delta Kappa Gamma, the honor society of key women educators. She was preceded in death by her husband, **Charley Fulton Hale '41**, and is survived by two children, Henry and Sharon, siblings **Glenna Smith '52**, Jewell and Moss, two grandchildren, five great-grandchildren and a host of loving family and friends.

George William Pence Sr., Acad '42, of McMinnville, Oregon, passed away May 3, 2011. He served in the Army Air Corps and is a veteran of World War II. George worked as a welder in Detroit and had two children. He moved his family to California in 1956 where he worked for Aero-Jet General and Burroughs Corporation. George is survived by his children, Donna and George, four grandchildren, 14 great-grandchildren, one great-great grandchild, and many extended family and friends.

Constance Delia "Connie" Hoskins Wells, Acad '42, of Ponderay, Idaho, passed away July 30, 2014. While serving in the Navy, she met Robert Vernon "Bob" Wells and they married December 1945 at Treasure Island, California. Connie became a teacher in 1963 and taught second-graders at Lincoln and Farmin schools until her retirement in 1980. She painted, did needlepoint, was a member of the Clark Fork Valley Quilters and volunteered many years tutoring students in her retirement. Connie is survived by four children, Bob, Vernon, Bruce and Gary, three grandchildren, three great-grandchildren and two brothers.

Susan Nickell Carothers '43, of Perry, Oklahoma passed away May 11, 2016. After graduating from Berea, she taught home economics at Man High School in Man, West Virginia. Susan married her husband of 66 years, Ed Carothers, in 1944 and they moved to Alpine, Tennessee, where he worked as a forester at the Alpine Institute, and she taught in nearby Livingston. In the mid-50s they moved to Monticello, Arkansas, where Ed taught forestry at Arkansas A&M College (now the University of Arkansas in Monticello) while Susan worked in the college's library. She is survived by her children, Jim and Barbara, three grandchildren, her niece **Janice R. Nickell '82**, and many extended family and friends.

Farris Burns Davidson, Acad '43, of Mason, Ohio, passed away June 30, 2015. He is survived by his children, Keith and Karen, five grandchildren, five great-grandchildren and 10 siblings.

Willa Thomas '43, of Morgantown, West Virginia, passed away April 14, 2015. She was a master swimmer, gardener and seamstress who also enjoyed bird watching. Willa was preceded in death by her husband, **Roy O. Thomas '46**, and is survived by her daughter, Lee-Ann.

John W. Bantz, Navy V-12 '43-'44, of Chicago, Illinois, passed away June 1, 2013. He was a general contractor specializing in the construction of air traffic control towers and sewage treatment plants, and was a longtime member of the Des Plaines Elk's Club. John is survived by his children, Jeffrey, Tom and William, five grandchildren, four great-grandchildren and many loving family and friends.

Obera "Obie" Huddleston Faas '44, of Mystic, Connecticut, passed away April 19, 2016. After graduating from Berea, she worked for many years as a nurse. In recent years, she began a choir at the Stoneridge Retirement Community where she lived, enjoyed calling on the "elderly" well into her 90s, and thoroughly enjoyed singing and playing the piano for the residents in the Avalon Nursing facility at Stone Ridge. Obie was preceded in death by her husband of 67 years, **Charles Edmund "Ted" Faas, Navy V-12 '43-'44**. She is survived by her children, Ann, Mary and Susan, three siblings, eleven grandchildren, 15 great-grandchildren and a host of loving family and friends.

Dr. David R. Jordan, Navy V-12 '43-'44, of Indianapolis, Indiana, passed away April 28, 2016. After earning a commission as an ensign in the Navy V-12 program at Berea, he got his Doctor of Dental Surgery degree from the University of Louisville, and a specialty in prosthodontia from the University of Michigan. David joined the Air Force in 1951, which allowed the family to live throughout the U.S., Japan and Spain during his 23-year career. He retired in 1966 as a lieutenant colonel and became a professor at Indiana University Dental School. He opened a dental practice and practiced dentistry for the next 50 years. David was preceded in death by his wife of 67 years, **Sara Slusher Jordan '45**, and is survived by his sons, David, Michael, Bruce, Mark and Cary, 12 grandchildren and five great-grandchildren.

Dr. Warren R. Moore, Navy V-12 '43-'44, of Grosse Point Farms, Michigan, passed away September 3, 2015. He earned a bachelor's degree from Morningside College in Sioux City, Iowa, graduated from the University of Iowa College of Medicine in 1948 and completed his residency in obstetrics and gynecology at Harper Hospital. Warren served in the Naval Reserve while completing his education and when re-enlisted, was called to active duty during the Korean War. He was commissioned as a lieutenant and served with the Marine Corps as an anesthesiologist in a field hospital. Warren was in private practice at St. John Hospital until his retirement at 64. He is survived by three children, seven grandchildren and two great-grandchildren.

Milton Wallace Noward, Navy V-12 '43-'44, of Pinckneyville, Illinois, passed away March 13, 2015. He served in the Navy during WWII on the USS Barnwell APA 132 and sailed through the Panama Canal to Norfolk, Virginia at the end of the war to help place his ship in fleet reserve. Wally worked at Mighty Fine Pudding for 19 years and as a mechanic for Consolidated Coal for 19 years. He also served on the school board and was a volunteer firefighter. Wally is survived by his wife, Sharon, two children, four grandchildren and seven great-grandchildren.

Dr. David Alexander Bowman '45, of Clearwater, Florida, passed away May 31, 2016. He graduated from the University of Louisville Medical School in 1950, served his internship at Hurley Hospital in Flint, Michigan, and completed a psychiatric residency at Rollman's Psychiatric Institute in Cincinnati, Ohio. David had a private practice in Bay City, Michigan, from 1951 to 1967 and then a private psychiatric practice in Cincinnati from 1972 to 1990. He was an accomplished sailor, biker and ballroom dancer. David also was a pilot, owned several small aircraft and an aircraft training school in Cincinnati. He is survived by his daughter, Darla, two grandchildren, four great-grandchildren, two great-great-grandchildren and a host of loving family and friends.

Morley Brickman, Navy V-12 '44-'45, of Evanston, Illinois, passed away April 30, 2012. He is survived by his wife, Betty, five children, 14 grandchildren, five great-grandchildren and four siblings.

Gerald Daggett Johnson, Navy V-12 '44-'45, of St. Johnsbury, Vermont, passed away August 15, 2014. He served in the Navy during WWII as a radio man aboard many vessels. Jerry's work after the Navy took him to various places where he extended his radio/TV broadcasting career as a transmitter technician, chief engineer, and announcer. He was a well-known local broadcaster and videographer, most remembered for his "Pets on Parade" videos and historical videos of the area. Jerry's long life was filled with learning about new discoveries in science and technology. He is survived by his daughters, Paula and Teri, eight grandchildren and a host of loving family and friends.

Eleanor Herrin '45, of Avon, Indiana, passed away April 22, 2014. She was affectionately known as "Grammy" to all of her grandchildren and you could always count on getting a sweet treat when visiting her. Eleanor loved to sing, play the piano and paint. She is survived by two children, Greg and Debbie, nine grandchildren, 16 great-grandchildren and many extended family and friends.

Margerilla "Margie" B. Simmons '45, of Lexington, Kentucky, passed away April 23, 2016. After graduating from Berea, she taught business and math in Floyd County, Kentucky, and Cabell County, West Virginia public schools before retiring in 1986. Margie was a life member of the Cabell County Education Association, participated in area activities for senior citizens, and was active in the Cabell-Wayne Association for the Blind. She is survived by three children, John, Paul and Patricia, five grandchildren, two granddaughters-in-law and one great-granddaughter.

Forrest Ira Watson, Navy V-12 '44-'45, of Brooklin, Maine, passed away June 4, 2014. After Navy V-12 officer training school at Berea, he earned a bachelor's degree at Notre Dame University and a master's degree from Harvard Business School. Forrest returned to military service, but in the Air Force, during the Korean War. Following the war, he was CEO and chairman of the board for the Ira A. Watson Company, a chain of small department stores serving southern towns. Forrest was a generous and truly gentle man, loyal to family and friends, always ready with advice and a helping hand. He is survived by his wife, Marghie, a son, and many extended family and friends.

Mary Ruth McKnight '46, of Corbin, Kentucky, passed away January 31, 2014. She was a member of Dorthae Pentecostal Church, a registered nurse at Southeast Kentucky Business Park Hospital in Corbin for many years and was commissioned a Kentucky Colonel in 2013. She is survived by two children, Charles and Audrey, one brother, four grandchildren, four great-grandchildren and a host of loving family and friends.

Paul Robert Porter, Navy V-12 '45-'46, of Seneca, South Carolina, passed away April 25, 2016. He served in the Navy during WWII as an aviation machinist's mate 3c (combat aircrew) on the aircraft carrier USS Franklin D. Roosevelt. Paul also served in the Marines as a sergeant machine gunner/mechanic. Following military service, he graduated from Ohio State University. Paul competed in many marathons and was cofounder of the Muncie Endurathon in 1980, one of the first modern triathlons in the world. He was a member of the U.S. Triathlon Board and was active in getting the sport accepted into the Olympics. In retirement, Paul biked across America. He is survived by his wife, Judy, four children, eight grandchildren and two great-grandchildren.

Barbara Schulze Schaftenaar '46, of Holland, Michigan, passed away February 27, 2013. She is survived by two children, Conni and Carl, two grandchildren, as well as many nieces and nephews.

Nancy Carolyn Sylvester '46, of Colorado Springs, Colorado, passed away October 4, 2015. After graduating from Berea, she worked as a child welfare worker and kindergarten teacher. Nancy was a member of First Presbyterian Church of Colorado Springs and the Colorado Springs Country Club. She was also a volunteer worker for many years at the Colorado School for the Deaf and Blind and at various other organizations working with pre-school children. Nancy and her late husband, Joe, enjoyed traveling, skiing, golfing and hiking. She is survived by her nephew, David, and a host of loving family and friends.

Margaret Blizzard Blevins, Acad '47, of Dormont, Pennsylvania, passed away November 1, 2011. She is survived by three children, Steven, Durinda and Nancy, two brothers, four grandchildren and three great-grandchildren.

Ruby Johnson Strong, Fd '47, of Mt. Washington, Kentucky, passed away August 5, 2014.

Charlotte Doty '48, of Afton, Tennessee, passed away August 11, 2015. She was a retired medical technologist at Takoma Regional Hospital, a member of the former Roaring Springs Home Demonstration Club and Doty's Chapel United Methodist Church. Charlotte is survived by three siblings, Mary, Louise and Hubert, and a host of loving family and friends.

Anna Rathje Fitts '48, of Honey Brook, Pennsylvania, passed away September 28, 2013. She graduated from the Medical College of Virginia as a registered nurse, served in the Richmond, Virginia public schools for more than 20 years and was a nurse at Camp Hanover. Anna is survived by her children, Ellen, David, Cheryl and Barbara, 14 grandchildren, three great-grandchildren and her brother.

Wilma Horton, Acad '44, '48, of Cincinnati, Ohio, passed away December 30, 2011. She is survived by two children, Glenn and Brenda, 11 grandchildren and 11 great-grandchildren.

Elayne Barbara Nord '48, of Fletcher, North Carolina, passed away June 2, 2016. After attending Berea, she earned a master's degree in social work from Rutgers University in New Jersey. Elayne worked for many years in the Newark, New Jersey school system as a social worker, initiating and then coordinating the school system's preschool handicapped program. She was a longtime feminist, a founding member of a National Organization for Women (NOW) chapter and a fighter for civil rights. Elayne played piano and cello and participated in numerous choral activities. She is survived by her husband, Ronald, her daughter, 11 grandchildren, four great-grandchildren and a host of loving family and friends.

Joan Lykins Parr '48, of Lexington, Kentucky, passed away May 3, 2016. After graduating from Berea and attending the University of Cincinnati, she taught high school English and biology in Waverly, Ohio, and Louisville, Kentucky. Joan maintained a strong commitment to education throughout her life. She served on the founding Board of Directors of Lexington Christian Academy, the Board of Trustees at Clear Creek Baptist Bible College, and the Alumni Executive Council of Berea College. She is survived by her husband of 65 years, **Dr. Eugene Q. Parr '49**, three children, five grandchildren, six great-grandchildren, a niece and many extended family and friends.

Norvell Caskie Sharp Loughborough '49, of Richmond, Virginia, passed away June 4, 2016. After graduating from Berea, she worked as a social worker for the city of Richmond and was a lifelong community service volunteer. Norvell was a member of the Woman's Club, Colonial Dames, Daughters of the Barons of Runnymede, Grace and Holy Trinity Church, and Christ Church, where she served on the Altar Guild. She is survived by her daughters, Phyllis and Louise, a son-in-law and a granddaughter.

Capt. Harold Lewis Terry, Acad '49, of Great Falls, Montana, passed away November 13, 2014. He fought in WWII and spent 30 years with the Navy, retiring in 1975. Hal spent the next 15 years flying airplanes for Alaska Department of Fish and Game and wrote a flight training manual, "Fly the Wild and Stay Alive." He is survived by his wife, Bonnie, seven children, 23 grandchildren and nine great-grandchildren.

1950s

Eddie Hoid Brown, Acad '50, of Whitesburg, Kentucky, passed away January 18, 2014. He was a retired Ford Motor Company employee and a member of the First Christian Church in London. Eddie is survived by his wife, Geraldine, three children, nine grandchildren, three great-grandchildren, one sister and a host of loving family and friends.

Ozal Caldwell, Acad '50, of Dayton, Ohio, passed away February 14, 2015. He proudly served his country in the Air Force from 1951-1955, and worked at Dayton Press as well as several other occupations in the Dayton area. Ozal is survived by his three children, Sharon, Joel and James, four grandchildren, 13 great-grandchildren, two sisters, and a host of loving family and friends.

Ann Bishop McNeer '50, of Brookfield, Wisconsin, passed away March 19, 2016. She is survived by her husband of 67 years, **Charles S. McNeer '50**, three children, six grandchildren, two great-grandchildren and many extended family and friends.

Dr. Herb Shadowen, Acad '44, '50, of Bowling Green, Kentucky, passed away May 18, 2016. He served in the Air Force during WWII. After graduating from Berea, he earned a master's degree from the University of Kentucky and a doctoral degree from Louisiana State University. Herb taught at Louisiana Tech before coming to Western Kentucky University, where he was a biology professor from 1961 to 1988. He was a member of First Baptist Church since 1961, where he served as a deacon and Sunday school teacher. Herb is survived by his wife, **Jacky Hopper Shadowen '50**, three sons, six grandchildren, two great-grandchildren, three siblings and many extended family and friends.

Dr. Harry Douglas Stambaugh '50, of Louisville, Kentucky, passed away May 9, 2016. He was a WWII Army veteran and earned a doctoral degree from the University of Louisville School of Medicine, completing his residency in plastic and reconstructive surgery at Cornell Medical Center in New York. Harry was a member of the Jefferson County and Kentucky medical societies as well as the Rotary Club of Louisville. He is survived by his wife, **Bette Parker Stambaugh '49**, two children, two granddaughters and two great-granddaughters.

Carolyn Ruth Verploegh '50, of Las Cruces, New Mexico, passed away March 4, 2016. She taught hundreds of children over her long career at Alvarado, Sandoval and Mark Twain elementary schools and started Cottonwood Kindergarten

in Corrales. Carolyn was a lifelong political activist, human rights activist, environmentalist, philanthropist and adventurer. She and her husband of 63 years, Ed, taught in Ethiopia, designed and built three homes, traveled the world together, and worked many years with several civic organizations. In addition to her husband, Carolyn is survived by three children, five grandchildren and six siblings.

George E. Brummitt, of Plant City, Florida, passed away June 14, 2015. He is survived by his wife, **Emogene Brummitt '51**, three nieces and a nephew.

Carol Davis, of Dearborn, Michigan, passed away May 2, 2015. She is survived by her husband, **Robert W. Davis '51**, four children, seven grandchildren and two sisters.

Gay Tippen Logan of Union, South Carolina, passed away May 6, 2016. She worked in the Union County School system and was a member of First Baptist Church. Gay is survived by her husband of 64 years, **Gene E. Logan '51**, three children, five grandchildren and three great-grandchildren.

Sarah Frances Smith Rall '51, of Frankfort, Kentucky, passed away June 19, 2014. She loved visiting with friends at Natural Bridge State Resort and was a member of Highland Christian Church. Sarah is survived by two children, John and Elaine, and two grandchildren.

Dr. Gene C. Rice '51, of Washington, D.C., passed away April 14, 2016. He served in the Marine Corps in WWII and received the Purple Heart in the Battle of Iwo Jima in 1945. After graduating from Berea, Gene earned a doctoral degree from Union Theological Seminary/Columbia University in New York and became a professor of the Old Testament, language and literature at Howard University School of Divinity for 51 years. He was preceded in death by his first wife, **Betty Jean Smith Rice '53**, and is survived by his second wife, Delores, a son, a granddaughter, two stepchildren, four siblings, and a host of loving family and friends.

James Allen "Bud" Fish '52, of Spokane, Washington, passed away August 7, 2015. After graduating from Berea, he attended the Naval Officer Candidate School, the Naval Explosive Ordnance Disposal School and then spent the rest of his military career on the destroyer, USS Holder. Jim earned a Juris Doctor degree in 1962 from Gonzaga Law School and over the course of his law career, joined a firm, opened his own practice and served as corporate council for several organizations. He is survived by his wife of 60 years, Mikell, four daughters, 11 grandchildren and one great-grandchild.

Ann E. Grove '52, of Waynesboro, Virginia, passed away December 29, 2015. She was a former school teacher and bookkeeper, was active in St. James Lutheran Church, the extension homemakers club and the Augusta County Library. Ann was known for her wonderful sense of humor and good cooking. She is survived by two children, Alan and Nancy, three siblings and a host of loving family and friends.

Dr. Norma Doris Pohl '53, of Saint Louis, Missouri, passed away April 16, 2016. She earned a master's degree at Northwestern University, and a doctoral degree at Washington University. Dr. Pohl is survived by her children, Laura, David, Bobby, Guy, Christy and Jeff, 13 grandchildren, 16 great-grandchildren, and a sister.

Andrew Sutherland Rose '53, of Rural Retreat, Virginia, passed away November 28, 2015. He was an Air Force veteran, loved nature, gardening and spending time with his family and friends. Andrew rarely met a stranger. He is survived by his children, Randy, Tamra and Kelly, a sister, four grandchildren and many extended family and friends.

Donald R. Caudill, Fd '54, of Hilton Head Island, South Carolina, passed away April 6, 2016. He was a founding partner in Delta Steel Corporation in Cincinnati, Ohio, a leading reinforcing steel fabricator and erector. After retiring from Delta, Don started a second career as a homebuilder and was a member of the fraternity of the Scottish Rite of Freemasonry. He is survived by his wife, Gem, one daughter, two grandchildren, three great-grandchildren, and a host of loving family and friends.

Nancy Swan Jones '55, of Berea, Kentucky, passed away April 21, 2016. After graduating from Berea with a degree in education, she taught school in North Carolina, Wisconsin, and Kentucky. Nancy directed the Woman's Industrial Program at Union Church and was active in Girl Scouts as a scout and leader. She was a lifetime honorary deacon at Union Church, where she had been a member since 1958, along with her husband of 61 years, **Loyal Jones '54**, who survives her. In addition to her husband, she is survived by her children, Carol, Scott and **Susan Ellen Jones '82**, two grandchildren, and many extended family and friends.

Sloane Shelton '55, of Wainscott, New York, passed away September 17, 2015. At Berea, she immersed herself in theater and wrote, directed, produced and starred in her own play. After living in New York City for a short time, Sloane won a scholarship to the Royal Academy of Dramatic Art in London and then returned to live in Greenwich Village to pursue a career in acting. She was in the soaps "Another World" and "As the World Turns," went on two tours with the National Repertory Theatre, and was a guest artist for six months in Auckland, New Zealand. Over the years, Sloane worked with Eva Le Gallienne, Sylvia Sidney, Kathleen Chalfant, and Vanessa Redgrave, and appeared with Meryl Streep in the film "One True Thing" and with Dustin Hoffman in "All the President's Men." She is survived by her partner of 50 years, whom she married in 2009, Jan, two nephews and their families.

Bartie Uhrel Bates '56, of Lake Park, Florida, passed away July 19, 2011. After attending Berea he graduated from the University of Kentucky. Bartie was a high school mathematics teacher and coached gymnastics before a 25-year career at aerospace manufacturer Pratt & Whitney. He retired in 2001 after 10 years at Florida Power & Light. Bartie loved being in the ocean, fishing, diving, sailing and going to Key West. He is survived by two children, Billy and Pam, five grandchildren, three siblings, his beloved Santo family and dog, Kayla.

Betty J. Michael '56, of Lafayette, Indiana, passed away March 23, 2016. She began her career as the manager at the Tippecanoe County License Branch. Betty entered public office as Tippecanoe County treasurer and also served as county auditor, county clerk and finished her career on the county council, retiring in 2013. She loved playing bridge, traveling, meeting new people and cheering on the Kentucky Wildcats. Betty is survived by her children, Robert, David, Richard, Stuart and Michael, her brother, eight grandchildren, one great-grandchild, and numerous nieces and nephews.

Lloyd Taylor '56, of Fort Worth, Texas, passed away May 12, 2016. After attending Berea, he joined the Air Force Cadet Navigator program in Harlingen. Lloyd served as a navigator during the Vietnam War and retired from the Air Force as a major in 1975. He was an active and valued member of Edge Park Methodist Church, working with the church up until the last years of his life. Lloyd is survived by his daughters, Alma and Renee, and two grandsons.

Mabel Lake Hayes '57, of Berea, Kentucky, passed away March 4, 2016. She retired from Gibson Greeting Cards, was a former board member of the White House Clinic and member of Berea Baptist Church. Mabel is survived by her children, Jim, Randy and Laura, two brothers, two granddaughters, and many extended family and friends.

Anna Holcomb Jones '57, of New York City, New York, passed away December 19, 2015. After graduating from Berea, she earned master's degree in business administration from Indiana University in 1958. Anna worked for the IRS in Washington, D.C. before moving to New York in 1960 where she was vice president of Gilman Paper Company. Her hobbies were traveling, playing tennis and reading. Anna is survived by her sister, **Carrie Bottenfield '57**, two nieces and three nephews.

Glenna Legg '57, of Princeton, Kentucky, passed away November 23, 2015. She was a homemaker and a member of First Baptist Church of Princeton. Glenna is survived by her husband, **Dr. Paul Legg '59**, three children, six grandchildren, one great-grandchild, one sister and one nephew.

Robert G. Todd, Fd '58, of Berea, Kentucky, passed away May 10, 2016. He was a retired electrical engineer with Ajax Magnathermic and member of Wallaceton United Methodist Church. Robert is survived by his wife, Shirley, two children, three grandchildren, and a host of loving family and friends.

Richard LeRoy "Deek" Foster, Fd '59, of Murphy, North Carolina, passed away October 24, 2013.

Emma "Jean" Turner, Fd '59, of Hamilton, Ohio, passed away September 11, 2015. She was employed as a cafeteria worker for Hamilton City Schools for 29 years, where she was affectionately known as "Miss Jean". Emma was a member of Tuley Road Church of the Nazarene. She is survived by her husband, David, four children, three siblings, 11 grandchildren, 12 great-grandchildren and a host of loving family and friends.

1960s

Dr. Daniel Layten Davis '60, of Hot Springs, North Carolina, passed away April 30, 2016. After graduating from Berea, he earned a master's degree from Michigan State University and a doctoral degree from North Carolina State University. Layten was professor of agronomy at the University of Kentucky and had a 50-year career in tobacco research. He was the recipient of the Philip Morris Golden Leaf Award and in 2012, was inducted into the Western North Carolina Agriculture Hall of Fame. Layten was an international expert on tobacco varieties and a member of the scientific commission of Cooperation Centre for Scientific Research Relative to Tobacco. He is survived by his wife of 56 years, **Veda Davis '61**, three children, one brother and seven grandchildren.

Freddie Joe Reynolds '60, of Columbus, Georgia, passed away February 6, 2011. He was a controller for the Mead Corporation for 35 years, a former board member of the Easter Seals and a member of St. Paul United Methodist Church. Freddie is survived by wife, Darlene, two children, three siblings and four grandchildren.

Edna Earle Shults '60, of Sevierville, Tennessee, passed away April 4, 2016. After graduating from Berea, she worked for 40 years at the Church of God Home for Children. Edna earned a master's degree from the University of Tennessee and was a longtime member of Parkway Church of God. She is survived by sister-in-law, Ruby, and brothers-in-law, Ray, Roy and Wayne, as well as a host of loving family and friends.

Leona Baldwin '61, of Canada, Kentucky, passed away November 11, 2015. She taught in the public school system for 28 years and taught Bible school and lady's Bible classes. Leona also wrote a column about the Baldwin family for the Williamson Daily News for 20 years. She is survived by eight brothers, Henry, Samuel, Charles, Stephen, Michael, James, Richard and Jonathan, eight sisters, Mary, Anna, Judith, Nancy, Patricia, Louise, Susan and Rebecca, a close friend, approximately 200 nieces and nephews, and many loving friends.

Quentin G. Howard, Fd '61, of Norwalk, Ohio, passed away June 12, 2014. He retired from the Ford Motor Company in 1995 and was a member of Victory Baptist Church in Norwalk. Quentin enjoyed detailing cars, playing drums and going to church. He is survived by his wife of 22 years, Gloria, four children, his stepson, nine grandchildren and four great-grandchildren.

Roger Gene Owens '61, of Mauldin, South Carolina, passed away January 30, 2016. He was founder and president of Save Our Sons, Inc. and served on the Clemson City Council. Roger was a general auditor at Liberty Life Insurance Company and he faithfully served as a deacon at Reedy River Missionary Baptist Church. He is survived by his wife, Emma, two children, one brother, and four grandchildren.

Marlene Ellis Payne '61, of Berea, Kentucky, passed away May 10, 2016. After graduating from Berea, she earned a master's degree in early childhood development from Iowa State University. Marlene taught at Berea College for more than 30 years, and was co-founder of and helped integrate the college's Child Development Laboratory. She served for many years on the boards of Hindman Settlement School, Buckhorn Children's Center and Berea Community School. Marlene was a Fulbright Scholar in Norway and served as a teacher trainer in Malaysia with the Peace Corps. She is survived by her husband, **Dr. John V. Payne '61**, two children, **Kennett Payne '00** and **Deborah Payne '02**, four siblings, **Debbie Ellis '79**, **Kennett Ellis '76**, Janelda and James, and a host of loving family and friends.

Charles L. Prince of Draper, Virginia, passed away December 13, 2015. He was an Army veteran who served in Germany, was a foreman for the International Iron Workers Local #5 in Washington, D.C. and a member of American Legion #7. Some of Charles' work includes ornamental finishing work on D.C. landmarks, including the U.S. Capitol and the White House. He is survived by his wife, **Barbara Kathleen King Prince '61**, two children, two grandchildren, three siblings and many extended family and friends.

Ralph Dow Heishman of Baker, West Virginia, passed away September 27, 2015. He was an Army veteran, was retired from the West Virginia Department of Highways, and was an avid hunter and outdoorsman. Ralph is survived by his wife, **Judith Dove Heishman '62**, three sons, five grandchildren and two siblings.

Lowell D. Reese '63, of Frankfort, Kentucky, passed away April 15, 2016. After graduating from Berea, he volunteered for the Army and served as a lieutenant in the 1st infantry division, known as The Big Red One. Lowell was wounded in battle, which earned him the Purple Heart and Combat Infantry Badge. After returning from service, he began his career at Mobil Oil, became chief lobbyist for the Kentucky Chamber of Commerce, then president of the state chambers in South Carolina and Arizona. Lowell served as the Kentucky state director of President Gerald Ford's 1976 re-election campaign, and four years later was an architect of U.S. Rep. Hal Roger's first election to Congress. In 1990, he started *Kentucky Roll Call*, a political insiders' newsletter, and in 1995 he restored *The Kentucky Gazette*, the commonwealth's first newspaper, which originally was published in Lexington in 1787. He is survived by his wife of 46 years, Carol, one son, one sister, and a host of extended family and friends.

Brenda Galloway Spillman '63, of Pisgah Forest, North Carolina, passed away March 14, 2016. After graduating from Berea, she earned a master's degree from the University of North Carolina at Greensboro. Brenda worked at Transylvania Vocational Services, the Transylvania County Library, and the Holly Library at AB-Tech. She retired in 2015, after having celebrated 20 years with the James B. Jones Library at Brevard College. Brenda was a founding member of the Davidson River Lions Club, serving proudly for 25 years. The chapter honored her as "Lion of the Year" for 2005-06. She is survived by her daughter, Cindi, five sisters, and a host of loving family and friends.

Wendell Lee Wright '64, of Berea, Kentucky, passed away January 16, 2015. He was a retired electronics engineer. Wendell is survived by six brothers, Gary, Norman, Jeffrey, Timothy, David and Matthew, four sisters, Nelda, Martha, Karen and Amy, and several nieces, nephews and cousins.

Bea Combs Riley '66, of Berea, Kentucky, passed away May 5, 2016. She was a retired Sodexho Food Service employee, having worked for many years at Berea College food service and Boone Tavern where she was affectionately known as "Aunt Bea" to many of the college students. She was a member of Pilot Knob Baptist Church. Bea is survived by her children, Rusty, David and Andy, five grandchildren, six great-grandchildren, and a host of loving family and friends.

Gale B Metcalf '67, of Cincinnati, Ohio, passed away March 11, 2016. After graduating from Berea, he earned a master's degree, and served in the Army and the National Guard. Gale retired from the railroad industry after many years of service and was a member of St. Mary Catholic Church. He is survived by siblings, Clifford and Helen, one niece, two nephews and a host of loving family and friends.

Thomas Edward Bedwell '68, of Frederick, Maryland, passed away May 2, 2016. He is survived by his wife, Martha.

Edward Smith '69, of McCLoud Mountain, Tennessee, passed away May 17, 2016. After attending Berea, he earned a bachelor's degree in forestry from the University of Kentucky and worked for many years in the hardwood industry in Henderson, Kentucky. Ed enjoyed fishing, playing golf and tennis, traveling, studying Civil War history and Kentucky Wildcats basketball. He is survived by his wife of 46 years, **Mary Ann Buck Smith '69**, four siblings, and a host of loving family and friends.

1970s

Madeleine Grace Edwards '70, of Somerset, Kentucky, passed away April 24, 2016. She was a librarian for Oakwood for 13 years and an assistant librarian at Pulaski County Public Library in Somerset. Madeleine was a member of the St. Patrick's Episcopal Church and its choir, a member of the Somerset Junior Woman's Club and numerous quilting guilds. She is survived by a brother, Charles.

Zshawn Keathley Jessie '71, of Delray Beach, Florida, passed away March 23, 2016.

Jeanice Murrell '71, of Columbia, Kentucky, passed away July 22, 2015. She was a member of the Cane Valley Christian Church where she participated in the JOY Circle. Jeanice was a registered nurse and worked with various home health agencies in the area for many years. She also served as past president of the Columbia Women's Club and was a volunteer for the Adair County Food Pantry. Jeanice is survived by two stepchildren, Vickie and Michael, two siblings, three step-grandchildren and a host of loving family and friends.

Richard Lee Tompkins Fd '67, '71, of Murfreesboro, Tennessee, passed away April 16, 2016. After attending Berea College, he joined the Air Force in 1973 and served in Korea, Indochina and Vietnam. Richard was a member of Oliver Springs United Methodist Church, was an avid reader and enjoyed all time spent with family and friends. He is survived by siblings, David and Brenda, step-brother, Steve, and a host of extended family members and friends.

Jerry Darrell Taylor '74, of Ewing, Virginia, passed away June 3, 2015. He was a retired teacher at Thomas Walker High School and a member of Chadwell Station Baptist Church. Jerry was also a proud member of the Usher Club of the University of Kentucky's Committee of 101 and the Rose Hill Lion's Club. He is survived by his children, James and Nikki, a sister, and a host of loving family and friends.

Earl Hamner Jr., Hon '75, of Los Angeles, California, passed away March 24, 2016. He was best known for creating the long-running family drama, "The Waltons," which was based on his 1970 book, "The Homecoming: A Novel About Spencer's Mountain." The show aired from 1972 to 1981 and won five Emmys for its first season, including one for outstanding drama series. The Virginia-born writer also created prime-time soap opera "Falcon Crest." Earl is preceded in death by his nephew, **Andy Hankins '77**, and is survived by his wife, Jane, two children, and three siblings.

Emily Catherine Moore '76, of Thomasville, North Carolina, passed away April 3, 2016. After graduating from Berea with a bachelor's degree in music, she earned a master's degree in library science from the University of Kentucky. Catherine worked at Paul Sawyier Public Library in Frankfort, Kentucky, the Rowan County Library System, and the High Point Public Library, where she served for many years as head of the media arts division. After retirement, she worked part-time for several years at Brayton International in High Point. She had a great love for music and the arts and was a pianist and harpist. Catherine is survived by her husband, Michael, a sister, and host of loving family and friends.

Dorothy L. Tatum '76, of Tazewell, Virginia, passed away May 1, 2016. She was an honor graduate of National Business College and also attended

Berea, Bluefield State College and Mercer County Vocational Technology Center. Dorothy was a former employee of Princeton Community Hospital where she worked as a nursing assistant and unit secretary for 11 years, and Northern Hospital where she worked as unit secretary for 16 years. She is survived by her husband of 30 years, Henry, her twin sister, **Drema Lee Burleson '78**, her father and a host of loving family and friends.

1980s

Anne Cobbs Smith Weatherford, Hon '82, of Black Mountain, North Carolina, passed away June 6, 2016. She was preceded in death by her husband, **Dr. Willis D. Weatherford Jr., Hon '82**, the sixth president of Berea College. Anne earned a bachelor's degree in math from Swarthmore College, where she met Willis, and then a master's degree in religion from the Lexington Theological Seminary. While first lady of Berea College, she taught basic math to incoming students and entertained numerous dignitaries, guests, students, faculty and board members. Anne served on the board of Hindman Settlement School, was on the Kentucky Human Rights Council for 10 years and was a member of the Berea Peace Makers. After moving to Black Mountain, she worked as the director of Christian education at Grace Church in Asheville for 10 years. Anne is survived by her children, **Edie Hunt '79 (Mick Hunt '79)**, **Julia Weatherford '79**, **Willis D. Weatherford III '83 (Jane Weatherford '84)**, **Susan Weatherford '85** (Brian Cole), **Alice Downes '84 (Jeffrey Carroll Downes '84)**, two siblings, 16 grandchildren, 13 great-grandchildren, and a host of loving family and friends.

Deborah V. Gibbs '83, of Dover, Delaware, passed away April 30, 2013.

Mary Catherine Hollyfield '83, of Johnson City, Tennessee, passed away October 12, 2015. After graduating from Berea, she did post-graduate study in early childhood development at the University of North Carolina at Greensboro and the University of Tennessee. Mary was a deeply devoted teacher of children all of her working years, beginning that career at the Early Learning Center in Johnson City and ending it in 2014 after many years in Johnson City Schools as librarian at Southside Elementary, having been honored as Teacher of the Year during her tenure there. She was preceded in death by her mother, **Clara Wilda Wilson '53** and is survived by her husband, Jeff, her father, **Wesley Wilson '53**, and her siblings, **Judge B. Wilson II '78**, **Melinda Wilson McDonald '79**, and **Nathan B. Wilson '86**.

Sandra Dee Lambert '84, of Morristown, Tennessee, passed away March 15, 2016. She was a member of Calvue Missionary Baptist Church and loved her little Yorkies as if they were her children. Sandra Dee was survived by her parents, Lowell and Ethel, three siblings, an aunt and uncle, and several nieces and nephews.

Sylvester Wayne Williams '84, of Cynthiana, Kentucky, passed away September 17, 2015. He was an automotive line worker, a member of Ebenezer United Methodist Church and an avid University of Louisville and San Francisco 49ers fan. Sylvester is survived by his wife, Belinda, his mother, three children, five siblings and a host of loving family and friends.

Darrell Eugene de Rosset '87, of Great Falls, South Carolina, passed away September 6, 2015.

Alan Dwight Hurst '87, of Middlesboro, Kentucky, passed away November 7, 2014. He was an Army veteran and was a member of Trinity Baptist Church in Middlesboro. Alan is survived by his siblings, Vernon, Martha and Annette, four nieces and nephews, and eight great-nieces and great-nephews.

Rev. John J. Haymon '88, of Penney Farms, Florida, passed away September 8, 2015. Sgt. Haymon was a Marine Corp veteran who served during operations Desert Shield and Desert Storm. He earned a bachelor's degree at Old Dominion University in Norfolk, Virginia and his juris doctorate from Florida Coastal School of Law in Jacksonville. John was pastor of New Hope Missionary Baptist Church and was employed by the Pentagon and the city of Jacksonville Business Development department. He also was the CEO of a computer systems firm. John is survived by his son, John, four siblings, and many extended family and friends.

Brian Keith Jones '88, of Lexington, Kentucky, passed away December 19, 2015. He was an employee of the University of Kentucky Motor Pool and an active member of The Royal Rangers Ministry and Frontier Camping Fellowship through Bread of Life Assembly of God in Lexington. Brian is survived by his wife, Janet, his mother, two sons, a sister, a niece and a nephew.

Anthony "Tony" Wayne Keith '89, of Wilmer, Alabama, passed away January 11, 2014. He was an Army veteran, serving in Operation Iraqi Freedom. Tony survived three IED attacks and was a Purple Heart recipient. He was of the Messianic Jewish faith and a member of the Congregation Tree of Life Synagogue in Mobile, Alabama. Tony is survived by his parents, Edward and Darlene, his daughter, a grandmother, a sister and a host of loving family and friends.

1990s

Randy Eugene Elmore '90, of Somerset, Kentucky, passed away August 20, 2013. He was the athletic director at Pulaski County High School and was a member of the First Baptist Church of Somerset. Randy is survived by his wife, Sheila, two sons, his mother and his two sisters.

Marty Wayne Killian '91, of Canton, North Carolina, passed away September 4, 2014. He was formerly employed by Haywood Community College as a financial aid specialist. Marty was a member of Bethel Baptist Church where he taught Sunday school and the Awana curriculum. He was an avid sports fan and enjoyed watching North Carolina Tar Heels and Atlanta Braves. Marty is survived by his wife of 22 years, Sandy, his son, two siblings, and a host of loving family and friends.

Teresa Lynn Johnson Libby '92, of Berea, Kentucky, passed away May 21, 2016. After graduating from Berea, she earned a master's degree from Eastern Kentucky University and worked at the Madison County Public Library. Teresa inspired many people in the community, and regularly created opportunities for the women in her life to spend time together exploring art, food and wine. She is survived by her husband, **Gary Libby Jr. '92**, her mother, her son, her brother, her nephew and nieces and her grandmothers.

Lester Pross, Hon '92, of Berea, Kentucky, passed away April 20, 2016. He joined the Berea College faculty in 1946 after earning a bachelor's degree in 1945 and a master's degree in 1946 from Oberlin College in Ohio. Les taught drawing, painting, design, art history, Islamic art and Asian art. He retired from Berea College in 1991 after 45 years of service and returned to teach painting classes in 2000. Les was also a visiting associate professor at Union College in Barbourville, Kentucky. He helped found the Kentucky Guild of Artists and Craftsmen (KGAC) in 1961, served as its first president and then helped establish the annual KGAC Craft Fairs that are held every October at Indian Fort Theatre. Les was commissioned as an honorary Kentucky Colonel for his work with the Guild. He also served as chairman of the advisory board of the Berea College Appalachian Museum from 1969 to 1984. A collection of his oil paintings were exhibited at the Smithsonian from 1981 to 1983. He was preceded in death by his wife of 62 years, **Mary Louise Pross, Hon '92**, and is survived by his children, David, Mark, and **Susan Laurel Pross Kramer '81**, and their spouses, Cynthia, Marty and **Stanley Kramer '60**, respectively, five grandchildren and a host of loving family and friends.

Jeffery Scott Ison '94, of Chattanooga, Tennessee, passed away February 12, 2015. He was a big University of Kentucky basketball fan and enjoyed coaching them from his couch, playing basketball and telling jokes. Jeffery is survived by his daughters, Chandler and Courtlyn, his fiancé, his mother, four sisters and a host of loving family and friends.

Linville J. Rose '94, of Berea, Kentucky, passed away October 15, 2013. He was a member of Cornerstone Baptist Church in Richmond and was a veteran of the Army. Linville is survived by his wife, Donna, five children, four siblings and four grandchildren.

Britt Miracle Jr. '96, of Clinton, Tennessee, passed away November 19, 2014. He is of the Pentecostal faith. Britt is survived by his wife, Veronica, his parents, his sister and nieces, and nephews.

2000s

Jacqueline N. Muhammad '00, of Birmingham, Alabama, passed away May 6, 2016. She is survived by her husband, Adam, and a host of loving family and friends.

Kyle Edward Bowman '05, of Mt. Vernon, Kentucky, passed away March 6, 2016. He attended both Berea College and Eastern Kentucky University, was a self-employed mechanic, loved sports, and was an avid and loyal fan of the Green Bay Packers and Notre Dame Fighting Irish. Kyle is survived by his parents, Carol and Mickey, his fiancée, four children, two siblings and a host of loving friends and family.

Abigail Lynn Dietz '13, of Philadelphia, Pennsylvania, passed away March 20, 2016.

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