Claude Worthington Benedum Foundation awards STEAM Grant to Marshall, Southern Regional Education Board partnership

The Marshall University Foundation Inc. has been awarded a $50,000 Phase One planning grant to expand Science, Technology, Engineering, Art and Mathematics (STEAM) educational opportunities in Huntington, West Virginia, and to update a statewide high school STEM program by the Claude Worthington Benedum Foundation.

The Benedum grant application was developed by faculty and staff in the Marshall engineering and art programs, in consultation with the Advanced Career program of the Southern Regional Education Board (SREB), and the Office of Career and Technical Education at the West Virginia Department of Education.

Dr. Stephen Pruitt, president of the Southern Regional Education Board, is supportive of the work.

“Our goal is to assist states in promoting workforce equity for each and every student,” Pruitt said. “High schools and technology centers are being challenged like never before to prepare youth for their next steps after graduation, whether those steps include earning a credential or degree or securing a good job right away. The SREB Advanced Career (AC) courses are helping schools in West Virginia meet the challenge by introducing students to exciting careers in varied STEM fields. SREB is pleased to collaborate with Marshall University in creating learning experiences that will expand postsecondary and workforce opportunities for West Virginia’s students.”

West Virginia Department of Education President David Perry said, “The Benedum Foundation has been a long-term contributor to education in the state of West Virginia. We are appreciative of the financial support they have provided and continue to provide at all levels of our public education system. The grant they approved for the partnership between Marshall University and the Southern Regional Education Board will help support our College and Career Readiness and Simulated Workplace programs.”

The Benedum grant will support the piloting of new, integrated, hands-on art and engineering courses at Marshall University and update a sequence of four high school STEM courses originally designed to support the energy and power industry in West
Virginia. These courses were developed for West Virginia by the SREB nearly 10 years ago, in cooperation with local industry and education personnel. The SREB has also developed several different high school STEM programs in most of the 16 states that they support, all of which are developed in cooperation with the emerging industries in each state. Programs are then marketed to high schools in each state and each school selects the STEM topic to teach and the educators to oversee the courses. Once these selections are made, the educators participate in intensive two week workshops in the summer to prepare for the next academic year.

“We at the Benedum Foundation are very excited about this hybrid program, one that integrates the arts and engineering, and which also creates a seamless secondary/postsecondary system of career preparation,” said Dr. Jim Denova, vice president of the foundation. “In the past, we have supported the SREB Advanced Career program because it is a model of college-preparatory rigor in high school career and technical education. In an era in which most jobs will require some postsecondary training, the associate degree has become the new credential for entry into the workforce; especially for entry into a career. To not prepare all students for college is to do them a serious disservice.

“In addition to the vertical secondary/postsecondary integration of this project, Marshall University’s horizontal integration of art and engineering reflects the cross-disciplinary collaboration that is in such demand by industry. This collaboration recognizes that innovation and creativity come from the cross-pollination of different sectors. With this in mind, the Benedum Foundation launched a Creative Industries Initiative that centers on artists and designers as the catalysts of invention and economic growth.”

Marshall University engineering professor Dr. Richard Begley assisted with the grant application and said he believes its impact will be felt at Marshall University.

“The Benedum grant will be a very significant and timely contribution to the investments made in both the engineering and art programs by Marshall University over the last few years,” Begley said. “The state-of-the-art facilities at the Weisberg Applied Engineering Complex have already been used to deliver the energy and power workshops, as well as workshops in advanced manufacturing and innovations in science and technology, to high school teachers from 12 different counties in West Virginia and almost all of the 16 states that SREB supports. These workshops facilitate unique university-high school faculty interactions and will contribute to new dual high school and college credit engineering courses for high school students in West Virginia. We are also offering options for the high school teachers that participate in the summer workshops to earn graduate college credit from Marshall. This is an exciting opportunity, as Marshall is enjoying unprecedented growth in the number of engineering faculty and engineering degrees that we are now offering. I am especially excited that several of our engineering faculty are embracing our plan to develop options for integrating hands on art courses into our engineering degrees. I am confident these new courses will help us better prepare our graduates for the 4th industrial revolution.”
Melissa McCloud manages one of Marshall University’s art facilities and provided valuable insight to the grant proposal. She said she believes this grant is of great importance to educators and students.

“Adding art as a catalyst to STEM has the power to not only fortify our students but also instill a sense of self agency that will serve them well throughout their lives,” McCloud said. “We have some of the most unique facilities for teaching art in the region. A more formal partnership with the engineering program here at Marshall, complements the other STEAM activities that our faculty and students have underway on campus and in our community. In future phases of this grant, we are planning to develop new STEAM college-credit courses and minors for other programs on campus. We believe this grant will result in Marshall University offering the first STEAM college-credit-awarding courses in West Virginia. There are numerous K-12 STEAM activities in West Virginia and several have been supported by the Benedum Foundation. We hope to build upon these previous investments made throughout the state of West Virginia in the years ahead.”

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RCBI to display advanced technologies at World Scout Jamboree

Scouts from around the world will have the opportunity to explore robotics, additive manufacturing (3D printing) and the latest automation technology at the Robert C. Byrd Institute (RCBI) exhibit during the 24th World Scout Jamboree July 22 through Aug. 2.

RCBI staff will be on hand each day demonstrating advanced technologies and answering related questions during the two-week event – billed as the largest ever gathering of scouts – at the Summit Bechtel Family National Scout Reserve in Fayette County. More than 43,000 scouts from 150 countries are expected to attend.

“We’re honored to have been selected to participate in this world event,” said Charlotte Weber, RCBI director and CEO. “Our goal is to provide scouts an entertaining and engaging educational experience in hopes that they will consider careers in the STEM fields (science, technology, engineering and math) and related manufacturing occupations.”

RCBI is part of the Living in the 21st Century: Knowledgeable Workforce exhibits located in the West End Partner Pavilion at the Reserve. In addition to scouts and support staff, exhibits are open to the general public during day visits July 24-25 and July 27-31 from 9 a.m. to 5 p.m. daily except for Sunday, July 28, when hours are noon to 5 p.m. The cost is $55 per person for those 14 and older, $30 for those six to 13 years old, and free for children younger than 6.

RCBI participated in the National Boy Scout Jamboree in 2013 and 2017. Both times it was hosted at Summit Bechtel Reserve, a sprawling, 14,000-plus acre campground, nature preserve and outdoor recreational facility adjacent to the New River Gorge. It is the permanent home of the National Jamboree, staged every four years.

Photo: RCBI staff members will showcase this Fanuc robot’s drawing capabilities during the 24th World Scout Jamboree, which runs July 22 through Aug. 2 in Fayette County.
The Marshall University community is remembering Dr. Paige Muellerleile, professor of psychology and past chair of the Faculty Senate, who died July 11.

A native of Mankato, Minnesota, she attended Scottsdale Community College and Mankato State University in her home state, and went on to earn her B.A. in psychology from Arizona State University in 1994. She then earned an M.S. (1999) and a Ph.D. (2004) in social psychology from Syracuse University.

She taught for two years at SUNY Cortland (2001-2003) and three years at the University of Wisconsin, Marshfield (2003-2006) before coming to Marshall as an assistant professor of psychology in 2006.

Here at Marshall she made a significant contribution to students’ preparation in research and statistics, teaching Elementary Behavioral Statistics, Intermediate Behavioral Statistics, Clinical Research Methods, and Psychometrics. Her expertise in research and analysis was valued by graduate students; she served on 21 research committees for M.A. and Psy.D. students.

At the time of her promotion to associate professor, her peers noted, “Dr. Muellerleile has given generously of her time and expertise to help just about every doctoral student with research design and analyses. In fact, most of the faculty members in the department have benefited from her collegial willingness to share her time and expertise with us as well.”

In addition to the research and statistics courses, she taught Social Psychology and Advanced Social Psychology, Psychology of Women, Health Psychology, Human Sexual Behavior and special topics courses related to the psychology of gender and human sexual behavior. She published five journal articles and a book review during her time at Marshall, and she authored 18 conference papers and a major grant. She was a reviewer for a number of professional journals, books, and grant agencies.

“Her service to the Psychology Department and the College of Liberal Arts was invaluable – she was sharp, insightful, and more than willing to raise and debate contentious issues,” said Dr. R.B. Bookwalter, dean of the College of Liberal
Arts. “Those collaborative habits inevitably improved the decisions we made and raised the quality of our work.”

She received the Women of Marshall Faculty Award from the Women’s Center in 2016. She was elected to Faculty Senate for four terms, and served as Faculty Senate Chair from 2016 to 2018.

In the Huntington community, she served 10 years on the board of CONTACT Rape Crisis Center, and served as president of that agency in 2011-2012 and again in 2015-2016. She willingly gave of her time and expertise as a speaker at local agencies, including Cabell County Drug Court, River Valley Child Development Services, Golden Girls Group Home, Harmony House, and the Southside Neighborhood Association.

A memorial service on the Huntington campus will take place Friday, Aug. 2, in the Joan C. Edwards Playhouse. A Gathering of Friends will begin at 3 p.m. and the service will start at 4 p.m., followed by a reception. The university community is invited to attend.

Please join the Marshall University community on Friday, Aug. 2, at the Joan C. Edwards Playhouse for a memorial service celebrating the life of Dr. Paige Muellerleile.

3-3:45 p.m. Gathering of Friends
4 p.m. Memorial Service
5 p.m. Reception

For more information contact University Communications
www.marshall.edu
Special Collections
will be closed July 18-19.

All other departments in Morrow Library
will be operating under normal hours.

For additional information, please contact
the Special Collections Department at 304-696-2343.
Marshall psychology faculty members and graduate students will give presentations this week at the 50th Anniversary of Comic-Con International in San Diego.

Psychology Professor Dr. April Fugett and Professor and Psy.D. Program Director Dr. Keith Beard, along with Dr. Britani Black, an instructor in Marshall’s Joan C. Edwards School of Medicine, and graduate students Kasey Kessler, Carrie Dean and Casey Collins will give two presentations. For the first, they will discuss their research examining personality and preferred “nostalgic” characters and shows, demonstrating how personality informs people’s choices of the characters they identify with and follow, often for their entire lives. For the second presentation, they will discuss a study in which they examined how a person’s personality related to his or her selected Patronus charm and House affiliation, based on the Harry Potter series of books and movies.

“We love presenting and talking to people about our research,” Beard said. “Presenting at Comic-Con International gives us an opportunity to talk with people who may not normally hear about psychological research. Just like psychology relates to every aspect of our lives, these pop culture characters and genres have become integrated into our society and also become a part of our lives. We are very appreciative that Comic-Con International allows us the opportunity to share our research with others who have common interests.”

Their first panel presentation will be Thursday, July 18, as part of the four-day event, among the largest Comic-Con events in the world. Their discussion is titled “Psychology and Nostalgia from Over 50 Years of Animation.” The Marshall team will review specific traits that are associated with over 500 nostalgia-inducing characters and their associated rankings, as well as discussing other psychological and personality factors in the context of generational differences.

“The cartoons of our youths, across a variety of genres and sources and generations, often hold a special place in our hearts,” reads the panel description on the Comic-Con International program schedule, found online at [https://www.comic-con.org/cci/programming-schedule](https://www.comic-con.org/cci/programming-schedule). “They can influence everything from the products we wanted in our lunchboxes, to the figurines on the mantels of our first homes or apartments, to the shirts we buy for our own children and grandchildren.

“There are classic characters that have endured for decades, such as the Flintstones and Scooby-Doo. There are movies and shows, like My Little Pony, Transformers and Care Bears, that are known as much for their merchandise as their sequels and reboots.”
The Marshall faculty and graduate students will give a second presentation Friday, July 19, titled, “Psychology and the Potterverse: Even Muggles can cast their Patronus – Expecto Patronum!” The results of their research demonstrate how personality informs a person’s choice of a Patronus charm.

“House assignments, such as Slytherin and Ravenclaw, and how personality factors influence how you are sorted were also examined,” the website says. “Additionally, specific personality traits that are associated with liking or disliking specific Potterverse characters will be reviewed.”

This panel will be presented as one of the first eleven to be held in the newly built Comic-Con Museum. The museum has selected honored guests to be included as part of its inaugural year.

“Comic-Con provides a unique opportunity to present our research and showcase the work being done at Marshall to an international audience of everyone from young children to fellow scholars,” Fugett said. “One of my favorite Comic-Con experiences happened right after one of our first presentations. This little girl from Germany hung back and talked to each of us after our panel. A few years later, a young lady approached us after one of our panels, and it was the same little girl. She’d taken the time to find us and come watch another of our talks. Comics and movies and TV shows and books and pop culture in general connect us in so many ways.

“We’ve gotten to present about personality and love and politics, and this year we’re adding generational shifts, but it really all comes back to the connection and inclusiveness of the ‘Con’ culture,” Fugett said. “We’re grateful that we get to play a small role in it.”

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The Provider Response Organization for Addiction Care & Treatment, or PROACT, will host a training on the use of naloxone, a lifesaving medication used for the emergency treatment of a known or suspected opioid overdose, Monday, July 22, from 4 to 5:30 p.m. at PROACT, located at 800 20th Street in Huntington.

The training will be led by Megan Peterson, R.Ph., CDE, a clinical pharmacist with Valley Health Systems Inc., one of PROACT’s partner organizations.

Attendees will receive a dose of Narcan®, a brand-name version of naloxone, provided by the West Virginia Bureau for Behavioral Health and Health Facilities, upon completion of the training. Registration is not required. The event is free and open to the public.

For more information about the training or to learn more about PROACT, call 304-696-8700.

The Provider Response Organization for Addiction Care & Treatment (PROACT) is dedicated to reducing the impact of addiction in our communities by providing comprehensive assessment, education, intervention and treatment solutions in a single accessible service hub. PROACT brings together behavioral, social and medical resources from the community to effectively triage patients suffering from addiction. PROACT is a collaborative partnership among Cabell Huntington Hospital, Marshall Health, Thomas Health Systems, St. Mary’s Medical Center and Valley Health. To learn more, visit www.proactwv.org.
Please join us for a healthy walk and informative talk about

Keeping the Herd Healthy:
Child & Adult Immunizations

Saturday, August 3 @ 8:30 am

Ritter Park – Huntington (Meet @ 8th Street Parking Lot)
For additional information, please call 304.691.1713.
Volunteer to be a member of the Fall 2019
MOVE-IN CREW

Please register to volunteer by August 5, 2019

Sign up today at www.marshall.edu/move-in/volunteer

MOVE-IN DATES
Tuesday, August 20th
Saturday, August 24th
Sunday, August 25th
8 A.M - 5 P.M.

Sponsored by Housing and Residence Life and Residence Hall Association
Questions? Contact Sarah-Frances Lyon at lyon13@marshall.edu

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If you’ve been considering LASIK eye surgery, here’s a special you won’t want to miss. Marshall Eye Surgeons is offering a LASIK summer discount for Marshall Health, Marshall University, Cabell Huntington Hospital and St. Mary’s Medical Center employees. Now through Aug. 31, 2019, you can save $400 off each eye when you choose one of our experienced LASIK surgeons, Dr. Vishal Verma or Dr. Russell Fry, at Marshall Health. Contact Marshall Eye Surgeons at 304-691-8800 today to schedule your free LASIK consultation.

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Save money on your office supplies!

We have gently used and new office supplies which have been collected from various areas on campus who no longer need/use them.

What do we have? Things such as:

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- Expandable file folders
- Binders of all sizes
- Letter trays
- File tabs
- Index tabs – to separate sections in a binder
- Hanging file folders
- File cabinet hanging rails
- Sheet protectors
- A couple of staplers
- 2” x 4” labels
- Miscellaneous HP ink cartridges (Provide cartridge number)
- Message tablets (while you were out)

THEY ARE FREE TO MARSHALL DEPARTMENTS FOR USE ON CAMPUS!

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Step 1: You send an email of your needs to me.
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Step 3: I email you when it’s ready for pickup.

If you have any questions, just let me know.

Cathy Lawson
Email: lawsonc@marshall.edu
Fairfield Landing apartments available to faculty, staff

Posted on June 4, 2019

Available August 2019! These furnished apartments for Marshall graduate and professional students also are available to faculty and staff.

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A two-day research symposium at Marshall University Joan C. Edwards School of Medicine honored the scientific achievements of Zijian Xie, Ph.D., and his 2008 discovery of the scaffolding/signaling function of the Na/K-ATPase sodium pump, a significant research finding that has had tremendous applications in both biology and medicine.

Xie, director of the Marshall Institute for Interdisciplinary Research and professor in the department of biomedical sciences at the Joan C. Edwards School of Medicine came to Marshall in 2013 from the University of Toledo, where he made the discovery of the scaffolding/signaling function.

“Dr. Xie’s seminal discovery 20 years ago launched a trail of additional research, further increasing our understanding of Na/K-ATPase signaling in clinical conditions ranging from cancer to obesity,” said Joseph I. Shapiro, M.D., dean of the Joan C. Edwards School of Medicine.

The event, held July 8 and 9 in the Erma Ora Byrd Clinical Center on Marshall University’s health sciences campus, brought leading researchers in the field from Marshall University as well as visitors from the University of Toledo, New York Medical College, University of Kansas and the Medical College of Wisconsin to discuss recent innovative and novel scientific pursuits by colleagues and collaborators investigating the now broad subject of Na/K-ATPase signaling. Last fall, the International Journal of Molecular Sciences also released a special issue featuring articles related to this scaffolding/signaling function involving many of the participants at the current meeting.

Photo: Presenters at a research symposium at the Marshall University Joan C. Edwards School of Medicine, honoring Dr. Zijian Xie, gathered for a photo.
Marshall joins study evaluating use of TOPS™ System in spinal surgeries

The Joan C. Edwards School of Medicine is one of 30 health care organizations throughout the United States and the only one in West Virginia taking part in an FDA investigational device exemption (IDE) study, sponsored by Premia Spine, Ltd., to evaluate the efficacy and safety of the TOPS™ System compared to traditional lumbar fusion.

The TOPS™ System is a mechanical device that is designed to restore motion of the spine in all directions. Instead of permanently locking the two vertebrae with a fusion, the device allows the two vertebrae to continue moving.

“This movement puts less pressure on the adjacent vertebrae, which we predict will decrease the likelihood of future surgeries in the area,” said Nicolas Phan, M.D., a board-certified neurosurgeon at Marshall Health and associate professor in the department of neurosurgery at Marshall’s School of Medicine. “We hope this study provides us with the scientific data needed to support the continued use of technologies aimed to correct underlying spinal conditions.”

Patients who meet the study’s criteria will be randomly placed into two groups—one undergoing surgery with the TOPS™ System and the other lumbar spinal fusion – with 67% percent undergoing surgery with the Premia device. Both types of surgeries assume the same degree of risk, Phan explained.

Marshall is now recruiting patients for the study. To be eligible to participate, patients must be experiencing radiating leg pain, greater leg or buttock pain than back pain, severe pain after walking as little as 100 yards or two minutes, and/or pain that reduces when sitting, bending forward or leaning over a shopping cart. The surgeries will be performed at Cabell Huntington Hospital.

Participants will attend regularly scheduled study visits with Marshall Health physicians for ongoing assessment. For more information about the clinical trial or to schedule an assessment to see if you meet the criteria, please contact Phan at Marshall Neuroscience at 304-691-1787.

Study 1303949 has been approved by the Marshall University Institutional Review Board #1.

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The next regular issue of *We Are...Marshall* will be distributed July 24, 2019. Please send items for consideration to WAMnewsletter@marshall.edu by 5 p.m. Monday, July 22, 2019.

To read the content of this newsletter online, please click on the following link: www.marshall.edu/wamnewsletter/July-17-2019.