

Bio:Life

BGSU COLLEGE OF ARTS & Sciences
BOWLING GREEN STATE UNIVERSITY

DEPARTMENT OF BIOLOGICAL SCIENCES ALUMNI NEWSLETTER

bgsu.edu/biology

Chair's message

Hello Alumni and Friends,

There is much to report, including our first snow squall of the season (late November, so it was expected). What a great fall we have had. The number of freshmen coming into Biological Sciences increased by 28 percent from last year, and they are very well-prepared; many are coming with college credits and are eager to work in our labs, undertake internships and study abroad. With over 700 majors now, we have a goal of increasing to 800 in a couple of years. Part of our success is that we have developed several specializations that help students focus their academic careers: such as Marine & Aquatic Sciences, Forensic Biology, Ecology & Conservation Biology, as well as our Microbiology major. Coming soon will be our Pre-Health in Biology specialization. Coupling these with the renovation of teaching labs in Moseley Hall, faculty who are fully engaged with students in the classroom and laboratories, and the 46 scholarship recipients you helped to support means that we have a great learning environment for students. Help us reach our goal of 800 majors by suggesting to a neighbor or relative that they check out BGSU; have them contact me directly (jminer@bgsu.edu).

About those renovations. Biological Sciences will be moving into two floors of Moseley Hall this summer that will house our introductory biology courses and the two Anatomy and Physiology classes. At the same time, this will open several classroom/laboratory spaces in Life Sciences, so we are making plans here also. We will be expanding the Marine and Herpetology labs, providing an undergraduate research facility, and adding classroom facilities and graduate student space. Come back to BGSU in the next couple of years, and we will show you around our 'new digs'.



Accomplishments and other career activities:

We had a great Pasakarnis-Buchanan lecture last spring by Dr. Steven Benner from the Foundation for Applied Molecular Evolution. Both Scott Rogers and Paul Moore published books this past year. Scott completed the second edition of his book, *Integrated Molecular Evolution*; this is an incredibly well-written book that even an ecologist like me can appreciate. Paul wrote

a popular book titled, "The Hidden Power of Smell: How Chemicals Influence Our Lives and Behavior," which explains how organisms perceive the world differently from us. Congratulations to both of them.

Many of you recent graduates may recall that we had an NSF-sponsored program for undergraduate research called Set-Go; Moira van Staaden was the lead on that grant. Moira has recently obtained another large NSF grant to help STEM instructors improve cross-disciplinary teaching and to develop more engaged teaching practices.

AND, LEE MESERVE IS RETIRING!

Yes, as of May, Lee will have placed his huge footprint on BGSU for 44 years and now he is passing the baton to the rest of us. Many, many of you have taken classes from Lee, worked in his lab, and received countless letters of recommendation from him. We wish him and Marge the best.

We are all working together to provide excellent learning and research experiences for students. If you can, please look for ways that you can foster the next generation of scientists, health and environmental professionals, and teachers. We have numerous undergraduate and graduate scholarships that can use your help.

Thanks and have a great year.

Jeff Miner
Professor and Department Chair



At the Marine Science Centre of Universitat Rostock, students interacted with one of the seals used in sensory research.

Baltic Sea Study Tour: 'A meaningful international marine biology experience'

Spring break 2016 for 18 marine biology students was not a typical spring break excursion. Led by Dr. Robert M. McKay, the trip destination was the Baltic Sea and not for sun and fun, but for research and a global experience.

The study tour was designed to introduce students to a marine environment or research station to study different marine habitats. The goal also was to expose the students to German culture and hospitality. Students participated in intensive fieldwork, visited laboratories and other cultural experiences. According to McKay, the trip, the third offered at BGSU since 2012, was planned in response to a 2011 University initiative to increase opportunities for students who study abroad.

The BGSU group was fortunate to receive financial support from the German Academic Exchange Service's Group Study initiative to visit the University of Rostock's Biologische Station Zingst and Marine Science Center and the Thünen Institut für Ostseefischerei.



Students pose by the Institut für Ostseeforschung Warnemünde research vessel Maria S. Merian during their visit.

CONTINUED FROM PAGE 1

The scientific sites were augmented with several cultural stops including an overnight in Hannover followed by visits to the Hanse cities of Lüneburg, Stralsund and Rostock. At Hannover, they heard an overview about the animal behavior research of Dr. Karl-Heinz Esser of the Zoology Institute of the University of Veterinary Medicine. At the Institute for Baltic Sea Fisheries, Rostock, the institute's Director, Dr. Christopher Zimmerman, offered a daylong program that included a brief overview, a review of the state of the Baltic Sea fish resources and a series of reports on the institute's research programs.

Dr. Christian von Dorrien presented "Fisheries and the Environment - Problems and Solutions," elaborating on target and non-target species, sustainable yields, unsustainable impacts (destructive fishing methods: dynamite and poison), by-catch and discards, and different technologies being implemented to decrease these hazards. Students also learned how the institute invokes the social sciences to improve fisheries management and how recreational fishing influences the exploited marine fish stocks.

One of the highlights for many students was at the Marine Science Centre of Universität Rostock where Dr. Guido Dehnhardt and his colleagues conduct studies on sensory systems and cognition in marine mammals, primarily harbor seals. Dr. Sven Wieskotten, a senior scientist at the facility, arranged for some direct interaction between the students and the seals.

The most intense work was at the Biologische Station Zingst where students helped collect water samples from two different collection points. Later in the

day they helped analyze the collected water samples for dissolved nutrients (nitrate and phosphate) as well as phytoplankton biomass (as chlorophyll). Students also rotated through a microscopy module where they examined the plankton contained in their samples.

"I cannot express the magnitude of impact this trip has had on my worldly and scientific perspective," said Brittany Zepernick. "This field course, my first time abroad, opened my eyes to the diversity and enormity of the world, and also validated my passion and interests in marine microbiology. I am now most certain, without a doubt, this is the field for me."

For Savanna Blank, the Baltic Sea trip provided "valuable knowledge that I could use towards a future job opportunity." There was value in studying the Baltic Sea because of the similar ecological problems compared to Lake Erie. During the behind the scenes experience at the University of Rostock Marine Science, where the work is devoted to research of harbor seals, the BGSU students were "up close and personal" with a harbor seal.

Ashley Neumeier shared her appreciation of the effort and time the professors put into making the trip a memorable experience for

all of the students. Beyond the value of the scientific discoveries, she also recalled a special moment when some of the students visited a breathtakingly beautiful church, and listened to a church employee share his knowledge about the church. Despite a language barrier, "he went out of his way to make us feel comfortable and welcome," which created a lasting memory for Neumeier and her peers.

"I was lucky enough to go out and collect samples from the boat," said Jamie Justice, who is involved in fish research at BGSU investigating size selective mortality in stocked steelhead trout. "Fisheries are one of my areas of interest as a future, so it was interesting to me to see a similar side of this research using herring rather than trout.

"We often don't think about how other scientists on a global scale use the same methods as we do for different research purposes, therefore it was eye opening to see how similar the practices in Germany were to those we use right here at BGSU."

Andie Fisher credits the professors for putting together such an extensive and expansive trip over spring break that was "one of the best experiences ever," where they witnessed the unique environment of the Baltic Sea. "The trip consisted of unforgettable hands-on experiences," Fisher said. "This trip fueled my passion for marine biology and opened my eyes to the amount of ocean conservation work going on outside of the United States. I feel I have gained a new perspective on the global scale of science and my future."



Moseley Hall is undergoing a significant renovation for a new science complex.

New spaces in Moseley Hall

By fall 2017, some of our introductory biology labs will be located in new lab spaces in Moseley Hall. Renovations to Moseley Hall are currently on schedule for completion by the summer/fall of next year.

Thus far, all of the floors have been laid and are close to being finished. Windows in the fourth floor have been installed and the contractors are moving downward floor by floor. In addition, the skylight

for the fourth floor has been installed and there is significant progress for plumbing for the restrooms and the electrical work.

Once completed, the building will house eight new laboratories for our introductory classes and will include smaller classroom sizes for increased student-instructor interactions and engagement.



Dr. Jill Zeilstra-Ryalls works in her BGSU lab.

BGSU biologist part of team developing tumor-killing method

BGSU biologist Jill Zeilstra-Ryalls is part of a team that is working to develop a cancer tumor-killing method with the potential to help win the war against cancer.

Known as a bacteria-engineering expert, Dr. Zeilstra-Ryalls is working with a team from the University of Wyoming that is trying to release special forces carrying programmed devices to infiltrate deep into an enemy's territory, counter enemy propaganda and then using infrared light, trigger detonation without harming the surrounding population of cells. The key to their research may be found in our own immune systems.

In addition to Zeilstra-Ryalls, the interdisciplinary team includes University of Wyoming's Mark Gomelsky and Anya Lyuksyutova, both molecular biologists, and immunologist Jason Gigley.

"It sounds so far-fetched to think about bacteria in the bloodstream," Zeilstra-Ryalls said. "Yet it's working to purposefully inject the bacteria and not have it cause disease."

Read more about the research at <http://www.bgsu.edu/news/2016/04/bacterial-drones-vs-tumors.html>.

Biological Sciences earns several Excellence Awards

Dr. Paul Moore honored with Lifetime Achievement Award



Dr. Paul Moore, a professor of biological sciences, earned the BGSU Lifetime Achievement Award at the Faculty Senate's Faculty Excellence Awards ceremony in April.

Honored for excellence in research, teaching and service over the past 22 years at BGSU, Moore has helped elevate the undergraduate program in marine biology and been an advocate

for inquiry-based teaching in his classrooms and the biology laboratory courses he supervises.

He also has mentored more than a dozen Ph.D. students and more than two-dozen master's degree students. Moore also has been a significant proponent for engaging undergraduates in hands-on research experience under his guidance in his laboratory.

Moore led the emergence of the marine specialization through the mid-1990s, and was instrumental in organizing and developing the J.P. Scott Center for Neuroscience at BGSU, an undergraduate and graduate cross-disciplinary program.

Read more at <http://www.bgsu.edu/news/2016/04/a-lifetime-of-achievement.html>

Bullerjahn is a leader in Great Lakes research



Dr. George Bullerjahn was named a BGSU Professor of Research Excellence during the Faculty Excellence Awards Ceremony in April.

Bullerjahn is known locally, regionally, nationally and internationally for making important contributions to the field of environmental microbiology that have helped position Bowling Green State University as a leader in this discipline in Great Lakes research.

Bullerjahn's research accomplishments span decades, but his efforts have taken a spotlight following the August 2014 contamination of the city of Toledo's water supply by toxins produced by cyanobacteria growing in Lake Erie's western basin. As an expert in this discipline,

Bullerjahn has led BGSU's response to this crisis.

Though his research has been ongoing for decades, his recent accomplishments include hosting a successful NSF- and NOAA- supported international workshop, leading a multi-institute research program in Sandusky Bay and determining environmental factors that promote formation of cyanobacterial blooms in Lake Erie embayments and in Grand Lake St. Marys.

"Without question, George is one of the nation's leading researchers in the fields of cyanobacterial ecology, physiology and molecular biology as they pertain to harmful algal bloom dynamics," Hans Paerl, professor of marine and environmental sciences at the University of North Carolina, wrote in a letter of support. "George's success is in part due to his infectious enthusiasm and drive."

Read more at www.bgsu.edu/news/2016/04/bullerjahn-named-professor-of-research-excellence.html.

Biological Sciences recognized for contributions to education

The Bowling Green State University Department of Biological Sciences was recognized for its outstanding contributions to education at the Faculty Excellence Awards Ceremony in April.

The unit was the Faculty Senate Unit Recognition Award for its contributions to recruitment, retention and overall student success.

The Department of Biological Sciences is composed of 31 full-time faculty members who train more than 700 undergraduate majors and thousands of other students through service teaching and who, with their doctoral and master's students, conduct advanced research affecting society and the environment.

The department's impact extends to active involvement in Preview Day, STEMs Day, the Northwest Ohio Science Olympiad and College Credit Plus.

"Teaching the next generation of scientists, professionals and enlightened, engaged citizens is of paramount importance to faculty in the Department of Biological Sciences," Department Chair Jeffrey Miner wrote in his nomination letter.

Read more at www.bgsu.edu/news/2016/04/department-of-biological-sciences-receives-unit-recognition-award.html



Faculty Senate recognized the Department of Biological Sciences for excellence in education.

Summer experiences create lasting learning

Studying a bug's life in Hawaii



Cari Ritzenhaler and Rob Baroudi studied rain forest bugs during a summer experience.

Cari Ritzenhaler, a biological sciences master's student, spent her summer on the Big Island of Hawaii. While spending three months in Hawaii sounds glorious, her research took her to the rain forests studying the small bugs that live in the leaves that litter the ground there. She encountered numerous challenges and obstacles during her summer research, but she gained an incredible amount of information as she studied the significance of the bugs that help break apart the big leaves that fall to the ground, making them more appetizing to the bacteria and fungi that further decompose the leaves. Ritzenhaler is continuing her research career as a graduate student in Dr. Shannon Pelini's lab.

Read more about her research at bgsu.edu/news/2016/09/cari-anne-ritzenhaler-on-research-project-in-hawaii.html



Crowdfunding helped student pursue dream internship

Alexandra Patterson hopes to use her biology degree to work at a rescue and rehabilitation center for marine mammals. This past summer, she had the opportunity to do just that; she spent three months at the Hunstanton, Norfolk Sea Life Sanctuary helping to rehabilitate common seals and gray seals.



The internship was unpaid, but she knew it would provide invaluable experiences in her area of interest. She chose to seek crowdfunding to help with the expenses for the three-month internship. In a relatively short amount of time with the support of friends and family who understood her dream, she raised enough funds to accept the internship.

Read about the opportunity of a lifetime for this marine biology and conservation ecology major at bgsu.edu/aims/in-the-news.html

Alexandra Patterson worked with marine mammals for summer experience.

Living the aloha dream with dolphins

Stephanie Maiorano has always loved the ocean and its endless mysteries yet to be discovered beneath the surface. Ever since she had a life-changing experience when she saw a dolphin for the first time, she has known she wanted to work with the sea creatures some day.

The biology major, with a specialization in marine biology, has taken advantage of every opportunity possible during her time at BGSU, from volunteering in the Marine Lab to participating in a class at the University of Southern Mississippi's Gulf Coast Research Laboratory. This past summer she was fortunate enough to be accepted for an internship at Sea Life Park in Hawaii, working with the dolphins.

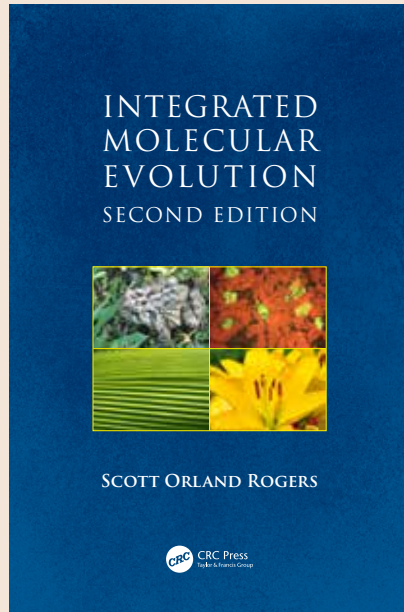
Read her first-person account of the summer in Hawaii, cementing her career choice to work with dolphins at www.bgsu.edu/news/2016/09/stephanie-maiorano-living-the-alo-ha-dream.html

Stephanie Maiorano enjoyed summer with the dolphins.

Department News

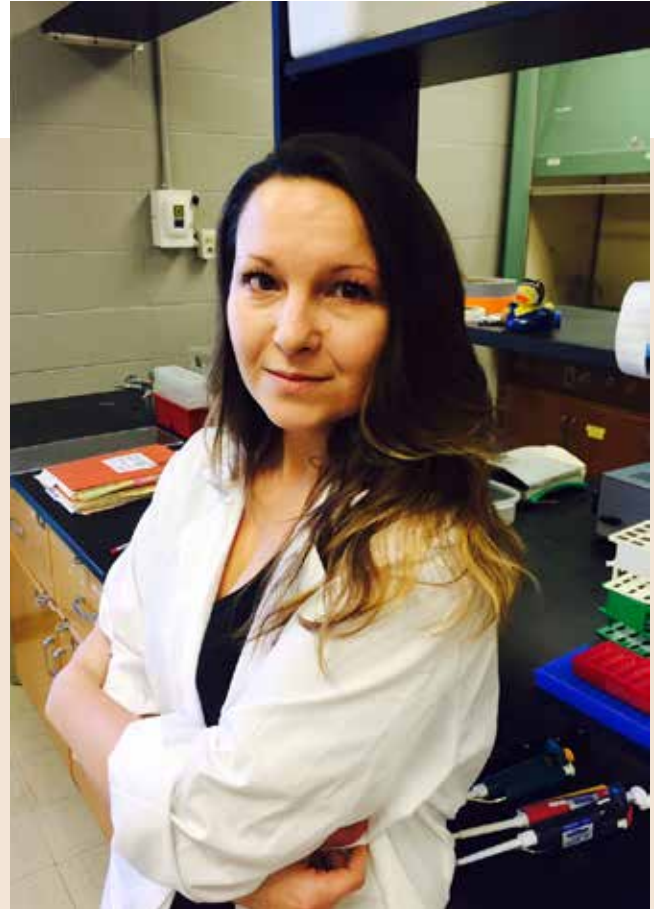
- **Dr. Scott O. Rogers**

authored a textbook, "Integrated Molecular Evolution," published by CRC Press, Taylor and Francis Group. The 2nd edition, now available (see book cover), is an amalgamation of several aspects of evolutionary biology. Topics include general evolution, biomolecules, evolution of the genetic code, horizontal gene transfer, genetics, population genetics, taxonomic concepts, phylogenetics, phylogenomics, multicellularity, molecular methods, endosymbiosis, organelle evolution, genomes, and others. The book is intended for undergraduate- and graduate-level students. With numerous additional chapters and over 400 diagrams, the second edition is nearly double the size of the first edition and provides up-to-date information on molecular evolutionary processes.



- **Dr. Steven Benner**, a Distinguished Fellow with the Foundation for Applied Molecular Evolution, presented the **Pasakarnis-Buchanan Lecture Series** in April 2016. Dr. Benner's talk was entitled "Resurrecting Ancient Proteins from Extinct Life."

- Alumnus **Dr. Marcus Chibucos '04** was an invited seminar speaker in the Department of Biological Sciences this fall. He presented "Enhancing Biological Research with Ontologies and Multi-'Omics Approaches." During his doctoral studies at BGSU, Dr. Chibucos studied *Phytophthora sojae*-soybean interactions with his mentor, Dr. Paul F. Morris and his colleague Dr. Vipaporn Phuntumart. He continued his work on oomycetes as a postdoc at the Virginia Bioinformatics Institute at Virginia Tech, where he studied *Hyaloperonospora* and *Phytophthora* genomics and contributed to the Plant-Associated Microbe Gene Ontology. He joined the Institute for Genome Sciences at University of Maryland, Baltimore in 2008 and the Department of Microbiology and Immunology in 2012.



Julia Halo Wildschutte

NEW FACULTY

In January 2016, **Dr. Julia Halo Wildschutte** joined the Department of Biological Sciences at BGSU as an assistant professor. She earned a Ph.D. in molecular microbiology at Sackler School of Biomedical Sciences at Tufts University in 2011. Dr. Halo Wildschutte studied human endogenous retroviruses (HERVs) during her doctoral training, which involved the identification of population-level HERV diversity among healthy, cancer, and schizophrenic patients.

After earning her Ph.D., she pursued postdoctoral training in the Department of Human Genetics at the University of Michigan where she used computational and experimental methods to study whole genomes of humans and canines in order to characterize mobile elements in terms of their involvement in genomic structure and disease. At BGSU, her research program is focused on understanding the influence of various types of transposable elements on the host genomic landscape, and the biological impact of continued transposable element mobility in host evolution.

This research and her teaching are important links to research at BGSU and our forensic biology specialization.



Kevin Neves

NEW FACULTY

Biological Sciences welcomed **Dr. Kevin Neves** to the department this fall as an instructor. His research expertise includes fish eye physiology, ocean acidification and effects of dissolved carbon dioxide on marine fish physiology, alternative feed formulation for aquaculture, fish nutrition, larval fish nutrition, integrated multi-trophic aquaculture systems, and development of novel species for aquaculture.

Neves earned his Ph.D. in marine biology from the University of Maine, where he worked at the Center for Cooperative Aquaculture Research (CCAR). There his research focused on the effects of elevated carbon dioxide on the production and eye health of juvenile Atlantic cod (*Gadus morhua*). His research was the first to link the formation of cataracts in the eye of the fish with increasing levels of carbon dioxide in the water. After graduation, Neves went on to be the Operations Director for Acadia Harvest Incorporated, located at the CCAR overseeing the day to day activities of an integrated multi-trophic aquaculture system producing top quality California yellowtail (*Seriola lalandi*) for the sushi market, as well as marine polychaete sandworms (*Nereis virens*) for bait and oysters (*Crassostrea virginica*).

In addition to teaching, Dr. Neves also plans to build an aquaponics facility in the campus greenhouse for research and demonstration purposes. He plans to use an environmentally friendly, multi-species approach to the system design, which will show the efficiency and ease of growing a number of species of crops in a small ecological footprint.

ALUMNI UPDATES

Jessica Loughner of U.S. Fish and Wildlife Service and Dustin Bowser of U.S. Geological Survey (both BGSU Alumni) holding Lake Sturgeon captured during springtime setline assessments on the Detroit River. (Photo by Jim Boase/USFWS)



Jessica Loughner

During my time at BGSU I was surrounded by people who wanted everyone to succeed. I am grateful for all the time invested in me and the opportunities that were made available by professors and advisors, from being able to be a student volunteer in the Marine Lab for four years to being part of a research lab with Dr. Jeffrey Miner, which started me down my path to doing fisheries research. These people were instrumental in helping shape my career path.

After I left BGSU I was accepted to the graduate program at Central Michigan University (CMU) where I worked under Dr. Tracy Galarowicz studying the changes in the nearshore beach fish community over the last 20 years, specifically after the introduction of Round Gobies and Zebra Mussels. Since graduating from CMU, I am working with U.S. Fish and Wildlife Service (USFWS) on an Early Detection Monitoring Program for new aquatic invasive species. We work in locations such as Maumee Bay and Sandusky Bay of Lake Erie, because they are at high risk for new introduction of fish species because of cargo ship traffic. I also get to work with our native species program tagging and releasing Lake Sturgeon in the Detroit River to monitor the population of these gentle giants. I love being able to still work on the Great Lakes and protect them from new threats and help to preserve and rehabilitate native species. Recently I was moved from a contract position to a full-time technician with USFWS.

Francisco Magaña

My time at BGSU set me up with the ability to think critically about information. My undergrad time taught me to think beyond textbooks and ask questions about how or why things work. In my science courses. I learned how to find, interpret, and even appreciate the newest and most up to date research.

The time I spent in the humanities gave me ability to engage in conversations with people across the spectrum about literature, art, and even ethics. The tight-knit community and the welcoming environment at BGSU helped shape me into who I am today - on my way to becoming a doctor. Thanks to BGSU, I received a well-rounded education that focused on my career goals, but also supported my growth as an individual.



Francisco Magaña is completing his medical school training at Ohio State University.

Bio:Life

Biological Sciences Scholarship and Award Recipients

Following is the list of scholarship recipients for 2016-17. This list includes awards for graduating seniors. Congratulations to these outstanding students and special thanks to our donors!

To view scholarship criteria, please visit: www.bgsu.edu/arts-and-sciences/biological-sciences/undergraduate-programs/scholarships.html

Alpha Epsilon Delta Award
Danielle Kemp (Alliance, OH)

Beta Beta Beta Award
Erica Eskins (Clyde, OH)

Biology Alumni Freshman Scholarship
(incoming freshmen)
Stephanie Wittman (Marysville, OH)

Biology Alumni Sophomore Scholarship
Rebecca Lang (Bowling Green, OH)
Megan Semler (Toledo, OH)

Jean Pasakarnis Buchanan Scholarship
Shannon Goniwiecha (Rochester Hills, MI)
Kyle Moss (Howard, OH)
Dale Shank (Risingsun, OH)
Hallie Zimmer (Cambridge, OH)

T. Richard Fisher Biology Scholarship
Erin Plummer (Hamilton, OH)
Preston Thompson (Waterville, OH)

James D. Graham Memorial Scholarship
Catherine Freed (Wooster, OH)
Shannon Turner (North Ridgeville, OH)

Ralph V. McKinney, Jr. – Eloise Whitwer Scholarship
Amanda Anderson (Cincinnati, OH)
Rachel Crowl (Akron, OH)
Nicholas Mendenhall (Strongsville, OH)

Suzanne K. Miller Undergraduate Research Assistantship
Katherine D'Angelo (Dexter, MI)
Jamie Justice (Lucasville, OH)

Barry R. Morstain Scholarship in Biology
Neisha Medina (Lorain, OH)

Multicultural Student Scholarship
Devin Wrice (Lorain, OH)

Linda and Larry Oman Scholarship
(graduate students)
Richard Budnik (Bowling Green, OH)
Payel Chatterjee (Kolkata, West Bengal, India)
Jennifer Shimola (Avon, OH)

Myra L. Patchen Biology Scholarship
Paige Lepowsky, (Austintown, OH)

Dawson S. and Sylvia A. Patterson Scholarship
Maggie Caswell (Uniontown, OH)
Julie Emmert (Masillon, OH)

Robert C. Romans Biology Scholarship
(incoming freshmen)
Kelsey Dietrich (Port Clinton, OH)
Tara Lanzer (Malinta, OH)
Noah Scheppler (Defiance, OH)

Joseph J. and Marie P. Schedel Scholarship
Emily Breech (Commercial Point, OH)
Katherine Herzog (Rockwood, MI)
Ashley Neumeier (Lima, OH)

Steven S. Steel Scholarship
Diana Thornton (Mason, OH)

Waldo and Evelyn Steidtmann Scholarship
Andrea Fisher (Springboro, OH)
William Gyurgyik (Shaker Heights, OH)
Phillip LaPlante (Oregon, OH)
Stephanie Maiorano (Clayton, OH)
Hannah Scheppler (Defiance, OH)

Cynthia Collin Stong Marine Biology Scholarship
Rachel Barnes (Bellbrook, OH)
Kevin Connell (Bowling Green, OH)
Alexis Szenas (Mount Vernon, OH)

Harold E. Tinnappel Scholarship
Sarah Bail (Springfield, OH)
Rachel Bienemann (Perrysburg, OH)

Dennis R. Whitmore Memorial Scholarship
Erica Eskins (Clyde, OH)
Elizabeth Glasgo (Williamsburg, OH)

Biological Sciences Scholarships

Visit www.bgsu.edu/biologyscholarships for a list of funded scholarships that are available to our undergraduate and graduate students thanks to the generous contributions of alumni, friends and other donors. We thankfully accept donations to any of these scholarships for the assistance of our students.

October 2015 – October 2016 Alumni/Retired and Current Faculty/Staff/Friends Contributions (\$74,075)

Again this year we want to recognize and thank our donors for their generous contributions. If you have provided a monetary gift to the Department of Biological Sciences and are not listed below, please let us know and we will include it in the next newsletter.

Biological Sciences Scholarship/General Activities Fund

Linda Atkins
David Alderfer
Thomas Asbury
Carol Augspurger
Anne Benjamin
Glen & Lareen Bowman
Mary Cronin
John Crooks
Paul Dahlhauser
Gregory DeCamp
Edward Durbin
Anne Graves
Eric & Elizabeth Hanson
Charles & Patricia Hillson
William Huskey
Richard Lyman
Katherine Mazzone
Debra McLean
Jeff Miner
Gary Solamon
Carol Thatcher
Robert Weiland
Lamar & Sondra Zigler

Biology Alumni Sophomore Scholarship

H. Stanford Bender
Jeffrey Brachok
Keith Camburn
Justin Chaffin
Drs. C. Ray & Michelle Chandler
Craig Fortman
Diego Grinberg-Funes
Edward Nolan
Gerard Volk

Electron Microscopy Center

Carol Heckman

T. Richard Fisher Biology Scholarship

Robert Brodberg
Clarence & Marjorie Smith

James D. Graham Memorial Scholarship

Gregg Gehring
Fred & Jaclyn Hendricks
David McCormick
Thomas & Virginia McQuiston
W. Patrick Monaghan

Marine Lab Operations Fund

Patricia Biesiot
James Downing
Christine Downing
Phyllis Evans
Patricia Killock
Dustin Mullet
Ronald Partin & Gamble Fund of the Greater Cincinnati Foundation

Barbara Long Masters Biological Sciences Research Fund

Barbara Masters

Myra L. Patchen Biology Scholarship

Ehren Chiropractic Center
Gregg Gehring

McKinney-Whitwer Biological Sciences Scholarship

Patricia Bauer

Dr. Suzanne K. Miller Undergraduate Research Assistantships

Kenneth & Suzanne Miller-Kobalka

Robert C. Romans Biology Scholarship

Robert Brodberg
Lorraine DeVenney
Lee & Marge Meserve
Terry & Phyllis Morrow
John & Bonnie Mucha
John & Paula Parrish
Jean Romans (in memory of Dr. Robert Romans)
Brent & Carla Takemoto

Cynthia Collin Stong Marine Biology Scholarship

Patricia Biesiot

Cynthia Collin Stong Marine Lab Operations Endowment Fund

Cynthia Collin Stong

Dennis R. Whitmore Memorial Scholarship

Catherine Sommer
Richard & Violet Whitmore

Make a gift today

Name _____ Year of Graduation _____

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Return to: Bowling Green State University, Department of Biological Sciences,
217 Life Sciences Bldg., Bowling Green, OH 43403-0208

Enclosed is my contribution of:

- \$25
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 Other \$ _____

My gift is designated for:

- Scholarships (indicate fund)
 New Equipment
 Department General Fund
 Marine Lab Operations Fund

Note: Make checks payable to BGSU Foundation Inc., Dept. of Biological Sciences



Bio:Life CONTRIBUTORS

Marcus Chibucos	Paul Moore
Julia Halo Wildschutte	Kevin Neves
Jessica Loughner	Scott O. Rogers
Francisco Magaña	Kelly Stewart
Jeff Miner	Tamera Wales



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Bowling Green, Ohio 43403-0208

bgsu.edu/biology

Please... Let us hear from you!

Your full name: _____
(Include maiden name if appropriate)

Address: _____

Graduation year(s): _____

Degree(s): _____

Place of employment: _____

Job title and/or job description: _____

Appropriateness of BGSU training for this position: _____

What might be added to better prepare current students for positions such as yours?

Would you and/or your firm be willing to sponsor, if appropriate, undergraduate internships? Circle: Yes or No

If yes, indicate name, address and email address of contact person: _____

Most memorable moment at BGSU: _____

