

APRIL 2019



ENVIRONMENTAL SCIENCE & ECOLOGY DEPARTMENT

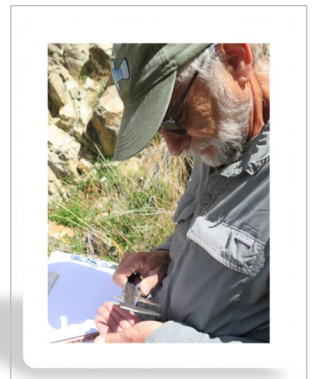
Spring 2019 Newsletter

Message from the Chair—Dr. Chris Norment

It has been almost six years since I became chair of what was then the Department of Environmental Science and Biology. At the time we had six faculty members and around 100 majors. Since then we have changed our name to Environmental Science and Ecology, added a new faculty line, and grown to over 130 majors. We also have experienced a number of personnel changes. Dr. Joe Makarewicz, who was instrumental in developing our major, retired, while Drs. Katie Amatangelo, Rachel Schultz, Courtney McDaniel, and Michael Chislock have joined the department. Andie Graham, our wonderful Instructional Support Technician, moved over from our Master’s program, while our new secretary, Crystal Nutty, will join us in April. With the retirements of Drs. Jim Haynes and Douglas Wilcox in 2019-2020, and the addition of our new fisheries scientist, Dr. Matt Altenritter, we will have moved well down the path toward a younger, more gender-balanced department.

Although the Department of Environmental Science and Ecology has experienced many changes since 2013, one thing has remained constant — the quality of our program. As was true six years ago, we remain a strong department, with a cadre of excellent teachers and scientists, and dedicated and engaged undergraduate and graduate students. The faculty and staff have continued their strong record of publishing in peer-reviewed scientific journals and obtaining the external funds necessary to provide our students with the experiences they need to secure jobs or further educational opportunities. Better yet, we (students, faculty, and staff) seem to get along pretty well! And so, even though as an administration I am not “to the manor born,” the qualities of our department have made my job as chair easier and more pleasant.

“moral issues have weight, and things that have weight have gravity.” I believe that there is a moral weight to what all of us (faculty, staff, and students) in the Department of Environmental Science and Ecology do – how and what we teach and learn, the research questions that we ask, the ways in which all of us in ES&E approach our responsibilities and our concern for the environment. And so there is gravity to our work, a gravity that pulls us into dedication and concern for the world around us, and for each other. To me, that is the



most important constant about our program, one that I trust always will be present.

There’s another thing that has remained constant during these last six years: our concern for critical environmental issues. In *When Breath Becomes Air*, Paul Kalanithi writes that,

News of our faculty and staff...

Dr. James Haynes, Professor in the Department of Environmental Science and Ecology, received the 2019 Professional Achievement Award from the New York Chapter of the American Fisheries Society during its annual meeting held in Poughkeepsie from Feb 6-8. Dr. Haynes was recognized for “Outstanding & Unequaled Devotion to the Protection & Enhancement of New York’s Fisheries & Aquatic Resources” by former students and colleagues for his 40 years of work in the field of Fisheries Science.

Robin Schepler, who officially retired from the College at Brockport after 35 years of service, has been filling in until the new secretary, Crystal Nutty, joins the department in mid-April. Over the years, Robin has worked in the Print Shop, Parking, and Student Accounts until retiring in November ‘13. Since then she has thoroughly enjoyed stepping into Political Science & International Studies, Educational Administration, and Social Work. She enjoys reading, crafts and is an accomplished “balloon twister”. It’s not unusual to see some of her creations sharing space in 105 Lennon!

Department Faculty & Staff: Dr. Kathryn Amatangelo, Dr. Michael Chislock, Ms. Andie Graham, Dr. James Haynes, Ms. Robin Schepler, Dr. Courtney McDaniel, Dr. Chris Norment, Norma Polizzi, Esq., Dr. Jacques Rinchar, Dr. Rachel Schultz and Dr. Doug Wilcox

Welcome to the Wetlands

This spring semester, **Chris Mitchell** joined the Wetland Lab as a masters student. He will be studying the response of waterfowl to coastal wetland enhancement / restoration. Next fall, **Sarah Kirkpatrick**, will be joining the lab to study vegetation dynamics in coastal wetlands.

Courtney Scoles, M.S. candidate, was awarded a Distinguished Professors Award to study the effects of invasive cattail removal on methane emissions using a mesocosm study. Courtney also received a \$500 research grant from the New York State Wetlands Forum (NYSWF). In addition to the grant, she received free registration and accommodations for the NYSWF annual conference this April in Saratoga Springs, NY.

Dr. Rachel Schultz was awarded a Pre-Tenure Grant Development Award to

design and refine a closed-chamber technique to measure greenhouse gas fluxes in freshwater wetlands.

Angela Becker, current undergraduate ENV. Science major, was selected for the Summer Undergraduate Research Program to investigate nutrient changes along a gradient of cattail density in an invaded coastal peatland. Dr. Schultz will be her faculty mentor.

Dr. Schultz was invited to give a presentation for the School of Environment and Natural Resources Graduate Seminar Series at The Ohio State University (her alma mater) on February 28, 2019. The presentation was co-presented with Dr. Jacob Straub and was entitled "Healthy Wetlands, Healthy Bird Populations? An Evaluation of Restoration at the Landscape Scale".

Two new courses, Ecological Data Analysis in R and Invasion Ecology are being taught this semester by Dr. Schultz.

Dr. Schultz will be presenting at the upcoming NY Wetlands Forum meeting in Saratoga Springs this April 1-2 and the Society of Wetlands Annual Meeting held in Baltimore Maryland May 28-31. Dr. Schultz will also be co-chairing the "Great Lakes' Coastal Wetlands: Innovative Research to Improve Restoration" session at the International Association of Great Lakes Research (IAGLR) being held in Brockport this June 10-14.

If you are interested in researching a wetland-related topic (or want to go botanizing...), please contact Dr. Schultz via email rschultz@brockport.edu or by phone 585-395-5747.



Intrepid skunk cabbage hunters, Megan Aubertine – M.S. candidate and Andie Graham, at Mendon Ponds Park.



Dr. Schultz and her Wetland Ecology and Management students enjoying the colors and awesome plant life at Kennedy Bog. .



Sign of spring – a skunk cabbage flower melting its way through snow on March 9th at Mendon Ponds Park.



Alex Silva, M.S. candidate, holding a cranberry at the (re) discovered peatland (>50 acres!) at

Though the field season was over, students were busy this winter working on multiple wetland ecology research grants. Under the direction of **Dr. Courtney McDaniel**, former undergraduate students **Payton Hanssen** and **Joe Knight**, along with graduate student **Alex Silva**, worked hard identifying aquatic macroinvertebrates under the microscope for the U.S. Environmental Protection Agency (USEPA) funded Great Lakes Coastal Wetlands Monitoring Program. Further, other crews finished data entry and quality checks from the summer 2018 field season. While most of the field work for this project happens during the summer, there is a lot of behind the scenes work in the winter. Crew chief **Greg Lawrence**, **Dr. Katie Amatan-gelo**, **Dr. Courtney McDaniel**, **Dr. Michael Chislock**, and **Dr. Rachel Schultz** all attended the annual project meeting in Midland, Michigan in early March and are gearing up for an exciting 2019 field season, the ninth full field season for the project.

Graduate student **Alex Silva**, undergraduate **Robert Sickler**, **Greg Lawrence**, and **Dr. Rachel Schultz** all made several site visits to Cranberry Pond, a new project site in the Braddock Bay Wildlife Management Area. **Dr. Schultz** and **Dr. Douglas Wilcox** received approximately \$60,000 from National Audubon Society for pre- and post-restoration data collection at the site. After discovering a unique vegetation community at the site, Alex and Rob made several subsequent visits during the winter to map out vegetation types using GPS units in the field and GIS in the lab. These mapping efforts, coupled with drone footage acquired by Greg, will help Ducks Unlimited design channels and potholes in the emergent wetland.

Wetland lab crews are preparing for a busy summer field season working on these projects, along with USEPA/New York State Department of Environmental Conservation funded post-restoration data collection at Braddock Bay led by graduate student **Courtney Scoles**, and U.S. Fish and Wildlife Service funded post-restoration data collection at Salmon Creek, Long Pond, and Buck Pond in the Braddock Bay Wildlife Management Area led by graduate student **Jeremy Brady**.



Former graduate student Scott Ward and Dr. Rachel Schultz identifying plants at Cranberry Pond

Grants and Research

Chris Norment has received a \$46,000 grant from the U.S. Fish and Wildlife Service for the project, "Conservation Genetics of the Inyo Mountains Salamander." For this project, Dr. Norment will be teaming up with Dr. Elizabeth Jockusch (University of Connecticut) and Steve Parmenter (California Department of Fish and Wildlife).



Jacques Rinchard has received a research grant for \$5,700 from the U.S. Fish and Wildlife Service (Vermont) to determine thiamine concentration in egg and muscle of Atlantic salmon collected in Lake Champlain in the fall of 2018.

Andie Graham has received a \$249,980 grant from NYS Department of Environmental Conservation to continue her work with the highly invasive grass, slender false-brome (*Brachypodium sylvaticum*), in Western and Central New York. The grant will support two full-time graduate students, advised by **Dr. Kathryn Amatan-gelo**, as well as one part-time graduate student and several undergraduate students advised by Ms. Graham. The goals of the project include detecting and mapping new populations of *B. sylvaticum*, researching environmental factors that contribute to the spread and distribution of *B. sylvaticum*, and employing control techniques to remove this invasive grass from infested areas. The grant will be administered by The Research Foundation for SUNY, The College at Brockport and runs from August 2018 through August 2020.

All About Alumni



James Ianni (BS, 2018, Aquatic and Terrestrial Track Alumnus) I graduated in December of 2018 and I'm currently working in the Chugach National Forest in Southcentral Alaska as a Wildlife and Ecology Intern for the US Forest Service's Glacier and Cordova Ranger District Offices. Thinking of Field Biology and Herpetology days from time to time. Thank you to all of the beautiful minds within the department who nourished my desire to inquire about the natural world, to which we all owe our glowing liveliness.

Evan Rea—2013

For the last two and a half years I worked as a Senior Laboratory Technician at the City of Albany Department of Water and Water Supply. While there, I learned a lot about drinking water treatment and regulation. The majority of tasks required a variety of routine water analyses (titrations, solids) centered around regulatory and aesthetic (order, color) parameters. Our focus was on process monitoring, and making sure the water we sent out was the best possible quality for the residents of the city of Albany. My new position will be at the University of Illinois, where I will be working for the Prairie Research Institute. Their lab works on a variety of research projects, with a focus on atmospheric deposition and groundwater chemistry. My duties will be mainly dealing with accreditation, something I was first exposed to at SUNY Brockport.

Hello my name is **Steve Robb**, and I graduated from SUNY Brockport with a BS in Biology with a concentration in Environmental Science in **2001**. After my graduation I took a job with the New York State Department of Environmental Conservation as a Seasonal Fisheries Technician at the Lake Erie Field Station in Dunkirk. After three years of fisheries work on Lake Erie I found permanent employment with the NYSDEC Fish Hatchery System as a Fish Culturist 1. I stayed in the hatchery system for almost 12 years working at Randolph, Bath and Caledonia hatcheries. In this time I stocked many different species of fish all over New York State. The most notable achievement from my time in the hatchery system was being recognized with the first, and only so far, Commissioner's Meritorious Service Award for my actions on a May 16, 2016 stocking trip. On that trip I had a volunteer suffer a heart attack, and I had to perform CPR which saved his life. I wrote an article for the Conservationist magazine describing that day. The story can be found at this link, https://www.dec.ny.gov/docs/administration_pdf/0417consmag4web.pdf. The story is on page 18. In the fall of 2016 I was promoted to my current job as a Fisheries Technician 2 at the Region 8 office in Avon NY. In my current position I have the pleasure of conducting all sorts of fisheries-related field work—everything from back pack shocking remote streams looking for native brook trout to trap netting muskellunge. I have exactly the job that I have wanted since I was a child, and getting my degree from SUNY Brockport was a huge reason that I have been able to achieve my goals.



Hiking the Appalachian Trail

Audrey Payne 2007

After thru-hiking the Appalachian Trail from Georgia to Maine in 2018, I have now landed at the National Snow and Ice Data Center (NSIDC) in sunny Boulder, CO, which is an organization within the University of Colorado Boulder that aims to advance knowledge of Earth's frozen regions. I am working as a communications specialist, which means I handle social media, media relations, and various science writing projects for NSIDC.

(Right Photo—Audrey loaded and ready to go)



**Mandi Ohar
(Caldwell) 2012**

*U.S. Fish and
Wildlife Fisheries
Biologist*

*This picture was
taken on the lower
Niagara River.*



Cory Stamp 2018

I graduated last year with my Bachelor's in Environmental Science, Terrestrial Concentration. Less than a month after I graduated I got a job with LaBella Associates D.P.C. in Rochester as a state-certified Project Monitor in the Regulated Building Materials Division. I basically monitor construction sites with active asbestos removal to make sure the contractors obey federal and state laws. Since being hired, I have also gotten my Inspector certification, which allows me to look for asbestos and other hazardous building materials for future renovations or demolitions. I love my job and hope to stick with it for as long as I can.

Aaron W. Heminway – ENV Sci. & Bio., B.S. Terrestrial Ecology **2011** and M.S. Wetland Ecology **2016**. After finishing graduate coursework in 2013, I worked two seasonal positions before securing full time employment. From June through July of 2013 I worked for The Nature Conservancy in Rochester, NY as a Lead Crew Member surveying and mapping aquatic invasive flora and invertebrates in Lake Erie and Lake Ontario watersheds. From July through December 2013 I worked for the environmental consulting firm, Ecology and Environment, Inc. based in Lancaster, NY as a term technician performing wetland delineations and water resource surveys in New Hampshire. In December 2013 I began working full time at another environmental consulting firm, Tetra Tech, Inc. in Buffalo, NY. I spent just under three years at Tetra Tech as a Biologist performing wetland delineations, water resource surveys, rare species surveys, invasive species surveys, post-construction environmental restoration inspections and authoring/implementing methodology for ecological inventories. In September of 2016 I started my current position as a Biologist with New York State Office of Parks, Recreation and Historic Preservation. In my current position, I am responsible for the environmental stewardship within seven state parks encompassing 68,000 acres in Chautauqua, Cattaraugus, and Allegany Counties. I work with park managers to help them balance protection of natural resources with public use as well as develop and manage my own studies and projects.





All Around Alumni

Jon Podoliak (MS, 2018)

I started a PhD in Natural Resources with a focus on fisheries and wildlife science at the University of Missouri (Mizzou). For my PhD I'm looking at evaluating restoration success of wetlands restored under the federal wetland reserve program (WRP) using several biotic metrics.

Mitchell Owens 2017 (M.S.)

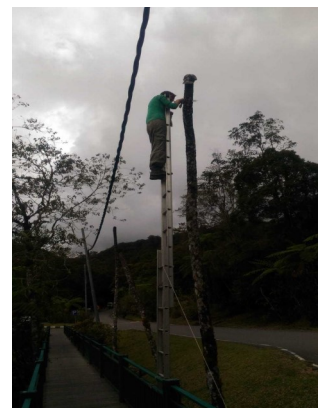
Ph.D, Student, Department of Geography, Indiana University – Bloomington, IN

Wyatt Jackson (BS, 2018) - Environmental Scientist, Pittsburg, PA

Daniel White (BS, 2017) I am a chemistry tech at R.E. Ginna nuclear power plant. I manage water chemistry to the ppm and ppb levels in a system of well over 130000 gal. I work with both radioactive and clean systems, environmental impact studies on and off site as well as routine chemistry for all inline monitors.

Since graduating from Brockport in the spring of 2017, I've been occupying my time with various avian field jobs, adventure sports, and conservation corps work. Currently I'm working as a field tech doing nest search and monitor for the University of Montana in Mount Kinabalu National Park, Malaysian Borneo. The species diversity is totally nuts here!! This fall I'll be attending graduate school to start my MS in ecology and evolutionary biology at... Location TBD! I've been accepted to 4 schools and it's coming down to crunch time for decision making-- I'm very excited to embark on this next adventure! **Holly Jackson**

Photo to the right shows Holly checking the nest of a velvet-fronted nuthatch in Borneo



Steve Miller 1994—Advice on Jobs!!

I have watched 30+ seasonals come and go at the DEC, with all of them leaving for another temporary position (usually involving a government agency or a cooperating non-governmental organization such as Trout Unlimited, Nature Conservancy, etc.). It is important that new graduates and current students take advantage of seasonal job opportunities, because there are thousands of candidates for hundreds of permanent jobs. The environmental science field is large and growing, but there are many people seeking employment. Job competition is fierce, and the more field experience you have, and the more practical knowledge you can gain from seasonal positions, the more employable you become. Seasonal positions allow you to gain valuable field experience, and build “your” network. Regardless of who you work for, you are going to meet others in the government and private sectors. These are the people who will be hiring/ recommending you to others within the field. To begin your career, it is best to not become tied down to living in Rochester, or somewhere else in New York State (even if that is your ultimate goal). You will have the opportunity to move around the nation while working, and learning from very qualified professionals. Ultimately you should find a full-time, permanent position.

Recently I attended the Northeast Aquatic Biologist Conference, where I saw many students and young professionals presenting their work. Many had held temporary positions, or had taken positions with AmeriCorps, and then were offered full-time employment, or began graduate school. So apply for and take temporary employment, and don't hold out for a full-time position doing field work!

My intent is not to depress you but to be truthful and help you find your dream job. Hard work in the field and at home applying for every position you can is the key. Good luck



Over the past four years I have been employed as a partial coverage North Pacific Groundfish Observer in Alaska. I am employed by a contractor hired by the National Oceanic Atmospheric Administration (NOAA). During my time as an observer I traveled to over 20 ports throughout the Aleutian Islands, Kenai Peninsula, and the Southeast region of Alaska. I am able to see diverse wildlife and beautiful scenery. The job consists of living and working on commercial fishing vessels throughout the Bering sea and Gulf of Alaska. While aboard, I collect quantified catch data, biological samples of various groundfish, crabs, corals, marine mammals, seabirds and elasmobranchs caught on commercial long-line, trawl or pot fishing gear (weights, otoliths, sex/lengths, sexual maturity and skate vertebrae). I independently organize and implement randomized sampling



methods specific to each vessel/ fishing gear type, as well as extensive data entry. This information is used by the National Marine Fisheries Service in order to better manage the Alaskan fishery. This position has allowed me to experience some of the most remote and beautiful places in Alaska while acquiring a great deal of knowledge and skills regarding the North Pacific fisheries.

Logan (Muller) Stratton 2014

Matt Futia (BS/MS, 2018) This past January I started a PhD program at the University of Vermont in the Biology Department working under Dr. Ellen Marsden. I hope to study Lake Trout ecology looking at differences between stocked Lake Trout and a recently recovering wild population in Lake Champlain. This would include comparing seasonal habitat use, movement (location and depth), and diet of stocked and wild lake trout in the lake. While developing research questions I have been able to assist other graduate students with their research and enjoy the Vermont scenery.



Michelle Edwards (BS, 2016) has been admitted to the Fall 2019 Master's program at Florida Atlantic University Harbor Branch to study Bull Sharks and Spotted Eagle Rays in the Indian River Lagoon, Florida. She will be receiving a tuition waiver and a stipend as part of her program. Michelle wanted to thank **Dr. James Haynes** and **Dr. Jacques Rinchard** for all of their support and encouragement these past few years, especially for sitting down with her at the beginning of the process and for the numerous recommendation letters they have sent on her behalf. They made all of this a lot easier and she really cannot thank them enough. Some of their achievements included making Fish Biology one of the most informative classes, sliding shark slides into Fish Bio presentations, assigning Lake Sturgeon for her mini project (the fish most like a shark) and there always being chocolate in Dr. Rinchard's office.

Graduate student, **Erica Mackey**, received the Distinguished Professor award to conduct her research in "Management Effectiveness of *Persicaria perfoliata*".

Graduate student, **Andrew Leonardi** also received the Distinguished Professors award to conduct research in "Exploring the Effects of Invasive Grass Slender False-Brome (*Brachypodium sylvaticum*) on Nutrient Cycling and Decomposition"

Graduate Student, **Tom Bianchi** at SUNY Brockport Environmental Science and Ecology received the Klumb-Spindler Student travel award from the New York Chapter of the American Fisheries Society for presenting at their annual meeting in Poughkeepsie last month (February 6-8).

Graduate student **Jessica DeToy** has received a Distinguished Professors Graduate research Award for her study, "Effects of an Invasive Plant on Terrestrial Salamander Populations." Jessica also has received a funding award for her project from the Western New York Herpetological Society.

GRADUATE STUDENT NEWS

It's with great pleasure we announce that one of our ENV undergraduates, **Mikayla Heiss**, has been chosen as the **School of Arts and Sciences 2018-2019 Distinguished Outstanding Undergraduate Student**. Mikayla is a double major in Environmental Science and English. Thank you to Dr. Michael Chislock, ENV, and Dr. Greg Garvey in English for coordinating the nomination.

2018-2019 Department awards

Daniel Beers- Kenneth E. Damann Award for Research in Aquatic Ecology

Mikayla Heiss- Departmental Scholar award

Jenna Malagisi- Departmental Scholar award

Four ESE students are participating in the **Marine Biology/Geology-Bahamas** course during spring break: **Hayley Brown, Hanna Buehler, Ryan Kirkpatrick and Cameron Snell** along with **Dr. James Haynes**. This will be Dr. Haynes's last trip prior to retirement. For three years, 1991-93, he learned how to teach the course from Bob Adams and Dick Liebe, who assisted with the program from 1994-97 and retired in 1997 from the Department of the Earth Sciences. From 1994-2016, he directed and taught the program with faculty members from Onondaga Community College (Margaret Harris and then Melissa Hicks) and SUNY Geneseo (Isidro Bosch, who has been directing the program from Geneseo since 2017).

Summer Undergraduate Research Program (SURP) 2019 Award Winners

Several students in the Department of Environmental Science and Ecology were awarded the 2019 Summer Undergraduate Research Program (SURP) fellowship. If you see the following students, be sure to congratulate them!

Angela Becker – Nutrient differences in substrate from invasive cattail stands versus an invaded fen in Cranberry Pond near Rochester, NY (advised by Dr. Rachel Schultz)

Katelyn Brown - Trophic cascades and aeration in lakes: effects on water quality and zooplankton community structure (advised by Dr. Michael Chislock)

Lillian Denecke – Interaction between dietary thiamine and lipid on survival, growth, and fatty acid composition of juvenile steelhead trout (advised by Dr. Jacques Rinchar)

Jacob Kearny – Pollinator communities on public lands: investigating new opportunities for management (advised by Dr. Christopher Norment)

Kevin Nash – The influence of human disturbance on Eastern Bluebird breeding habits (advised by Ms. Andie Graham)

Hannah Schuler – Quantifying plant-animal interactions on invasive mile-a-minute (*Persicaria perfoliata*) in western New York (advised by Dr. Kathryn Amatangelo)

Cameron Snell – Amount of microplastics in the nearshore sediments of Lake Ontario and the deltas of major tributaries (advised by Dr. Michael Chislock)

Student Travel Grants

Several undergraduate and graduate students received The College at Brockport Student Travel Grant, which is a \$300 award that can be used to reimburse expenses associated with travel to present work at an academic conference. Congratulations!

Tom Bianchi- *Oocyte Development of Age 2 Alewife in Lake Ontario* presented at the New York Chapter of the American Fisheries Society Annual Meeting in Poughkeepsie, NY. Advisor: Dr. Jacques Rinchar.

Megan Aubertine- *Impact of Brachypodium sylvaticum on Tree and Scrub Recruitment in Bergen Swamp, Bergen, New York* presented at the NY State Wetlands Forum Annual Conference in Saratoga Springs, NY. Advisor: Ms. Andie Graham.

Alex Silva- *Evaluation of Methods and Results in the Braddock Bay Wetland Restoration Project of Lake Ontario* presented at the NY State Wetlands Forum Annual Conference in Saratoga Springs, NY. Advisor: Dr. Douglas Wilcox.

Rachael Ezzzew- *Do Trails Facilitate the Spread of Slender False-Brome (Brachypodium sylvaticum) in Bergen Swamp?* Presented at the NY State Wetlands Forum Annual Conference in Saratoga Springs, NY. Advisor: Ms. Andie Graham.

Dan Beers- *Land-Use Impacts Water Quality and Aquatic Communities in the Genesee River* presented at the NY State Wetlands Forum Annual Conference in Saratoga Springs, NY. Advisor: Dr. Michael Chislock.

Kevin Killigrew- *Impacts of Disturbance on Habitat and Avian Populations in Irondequoit Creek* presented at the NY State Wetlands Forum Annual Conference in Saratoga Springs, NY. Advisor: Ms. Andie Graham.



The College at
BROCKPORT
STATE UNIVERSITY OF NEW YORK

**DEPARTMENT OF
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Limnology News at the College at Brockport

Michael Chislock's Limnology Lab is busily preparing for the spring/summer field season. Graduate student **Tammy Bleier** will be assessing the prevalence of microplastics in Lake Ontario tributaries, in addition to assisting with post-restoration monitoring of water quality at Braddock Bay. Graduate student **Paige Buchholz** is developing analytical methods to measure the accumulation of PAHs on microplastics in the Erie Canal and Lake Ontario/tributaries. **Kate Brown** and **Cameron Snell** will be conducting independent research as SURP students beginning this spring, with Kate examining the effects of aeration on biogeochemistry, zooplankton, and phytoplankton communities and Cameron monitoring the prevalence of microplastics in tributary and lake sediment samples. The lab is also excited that **Dan Beers** has decided to pursue his M.S. in Environmental Science and Ecology at Brockport. It should be a fun field season, with work also planned on Conesus and Silver Lakes.



Dan Beers' field survey with Dr. Courtney McDaniel and Michael Chislock examined linkages between land use practices, water quality, and lotic macroinvertebrates (including emerging adult insects!) on the Genesee River. Dan has presented a poster summarizing the results of his work at several conferences, including the Wetland and the upcoming IAGLR meeting..



Eli Polzer (MS, 2018) demonstrates the "Lake Ontario coastal wetlands squeeze." Eli now works as a botanist for the U.S. Army Corps of Engineers in Vicksburg, MS.



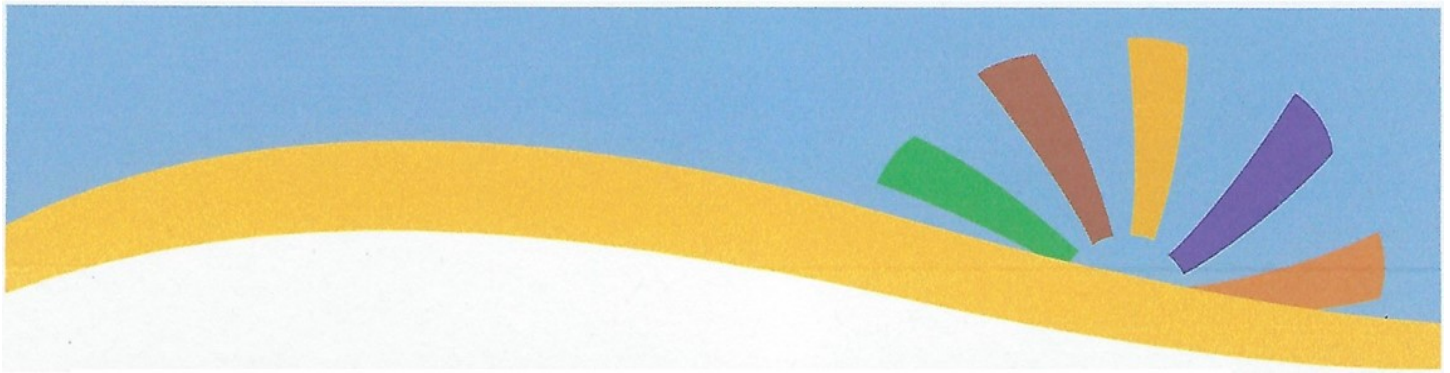
Dr. Nate Kleist, former assistant professor, holding Neil Stirling Kleist, who was born on January 31st. Congrats to Nate and his wife, Hope!

Field work at its best...



Aquatic Invertebrates Course (ENV 483/583) Dr. Courtney McDaniel's Class





Department of Environmental Science & Ecology Alumni Event

Please join faculty and alumni from the Department of Environmental Science & Ecology for a reunion event at Hamlin Beach State Park! This event also will honor Ors. Jim Haynes and Doug Wilcox, who will be retiring during the 2019 - 2020 academic year!

Saturday, May 11

Event begins at 2 pm

*Hamlin Beach State Park - Shelter
5*

1 Camp Rd

Hamlin, NY 14464

*Menu includes BBQ entree (hamburgers, hot dogs, bratwursts, veggie burgers), salads, chips, and non-alcoholic beverages. **Please indicate your entree choice when registering.** Attendees are also welcome to bring their own beverages lawn chairs, and a side dish to pass. Lawn games will also be on hand.*

The event is free. All members of the family are welcome!

*RSVPs are appreciated by **Monday, May 6.** RSVP by email at alumni@brockport.edu, call (585) 395-2068, or register online using this link: alumni.brockport.edu/ese19.*

Event sponsored by the School of Arts and Sciences, the Department of Environmental Science & Ecology, and the Office of Alumni Engagement.

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