

Calendar of Events

- June 20, 2019 **Monarchs! at Northern Kentucky University's Research and Education Field Station (REFS)**
Northern Kentucky University's Research and Education Field Station (REFS)
7-9pm
Monarchs! – Michaela Rogers, KY Fish and Wildlife
- June 20, 2019 **Enhancing Learning in Your High School Chemistry Class**
- June 21, 2019
Dr. Jason DeRouchey,
derouchey@uky.edu
Faculty from the University of Kentucky Department of Chemistry have produced massive open online courses (MOOC) and other online tools which are free and open to the public. The lectures and materials contained within the course can be utilized by high school teachers to supplement their class.
- We invite high school chemistry teachers from Kentucky and the region to attend our upcoming workshop "Enhancing Learning in Your High School Chemistry Class" hosted at the University of Kentucky on June 20-21, 2019. In this two-day workshop, you will explore the MOOC and other online tools and consider areas in which these resources might enhance your students learning and develop a lesson plan for a specific topic of your choosing.*
- Apply online at the link below. Space is limited to approximately 15 teachers for this year's workshop. Hotel accommodations, mileage reimbursement, meals and a \$200 stipend will be provided. See the attached flyer for more details.*
- APPLICATION DEADLINE: JUNE 7, 2019**
- Qualified applicants will be selected to have a group of teachers from diverse school districts within the region. Teachers selected will be notified by June 10th with additional details about the event.*
- June 22, 2019 **Lexington Youth Science Summit**
- June 22, 2019 **KY- AIPG meeting (American Institute of Professional Geologists)**
Room 102, Kentucky Geological Survey
504 Rose Street 228 Mining and Mineral Resources Building University of Kentucky,
Lexington, KY 40506-0107
10am
Richard Smath,
richard.smath@UKY.EDU
All are welcome!
Park on the left side of the W.T. Young Library lot off of Columbia Avenue or in Parking Structure #2 (if the gates are up) down Hilltop Avenue.

June 24, 2019
- June 28, 2019

Preservation Archaeology Camp
Portland Museum
2308 Portland Ave, Louisville, KY 40212

10am – 5pm

Programs Assistant, Bailey O'Leary, 502.776.7678

bailey.oleary@portlandky.org

Preservation Camp

Grades: 5-9 Cost: \$150

Expand your child's education this summer, and send them to Portland Museum's Squire Earick House - the oldest, still standing, timber-framed house in Jefferson County!

For the first few days, your child will learn about Portland's social history and historical architecture. The camp will also go on daily trips to the museum's Squire Earick House where students will work with various public history and archaeology professionals to understand what it means to have a historic house in a museum collection. Plus, we will visit a couple local historic house museums!

Overall, campers will learn to research and evaluate sources pertaining to historical culture and explore the 19th century techniques used to create the Squire Earick House.

** Starting this year, we are offering early drop-off / late pick-up times.*

About

From our beginning as an exhibit in an elementary school classroom, Portland Museum is rooted in education. Throughout the year, we offer week-long youth camps and drop-in workshops. With each camp, we strive to broaden children's perspective on history, art, museums, and the Portland-Louisville area.

For Summer 2019, camp sessions begin as early as Monday June 10th and run through the month of June. For the first time, we are also offering early drop-off and late pick-up times.

Scholarship Information

Scholarships are available for each program listed. There is a limited number of scholarships, so we encourage you to fill out an application as soon as possible!

If your child is attending more than one camp, a separate scholarship application will need to be completed for each camp enrollment.

June 25, 2019

Butterfly Identification: A Citizen Science Workshop

Floracliff Nature Sanctuary

6:30 pm - 8:00 pm

\$10

Learn how to identify over 40 of our most common butterflies to prepare for the upcoming summer butterfly count (date TBD). This program will be entirely indoors.

Learn how to identify over 40 of our most common butterflies to prepare for the upcoming summer butterfly count on Saturday, July 13th. This program will be entirely indoors.

This program is part of a citizen science workshop series we are offering in 2019. Citizen science provides opportunities to connect to nature, build community, and practice mindfulness, all while contributing to knowledge of the natural world. Each workshop session will include a 1-2 hour indoor identification presentation and a corresponding outdoor activity or event. Please see our events page for information about the other workshops.

Program leader: Beverly James, Preserve Director

Visit <https://floracliff.org/events/> to make reservations!

Cancellation/Refund Policy: To cancel your registration and request a refund, please email info@floracliff.org at least 2 weeks before the event.

June 27, 2019

Effects of Stream Restoration on Nutrient Pollution

8330 Mary Ingles Highway, California, KY, 41007

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7-8pm

Tammy Newcomer-Johnson, Ph.D., systems ecologist, US EPA

Newcomer-Johnson is a systems ecologist with the US EPA at the National Exposure Research Lab in

Cincinnati, Ohio. Her research interests are in using biogeochemistry and EPA tools to understand

human dominated watersheds in order to maximize ecosystem services and reduce stressors like

excess nutrients and storm water pollution and benefit communities.

Newcomer-Johnson received a

Bachelor of Science in environmental science from UMBC and a doctorate in marine estuarine

environmental science from University of Maryland, College Park. Her graduate work was supported

by fellowships from Sea Grant, US EPA, and the National Science Foundation.

Newcomer-Johnson is passionate about using

applied science to improve environmental management and policy. During her last year of graduate school, she served as a

Knauss Marine Policy Fellow with NOAA's National Sea Grant Office and supported fisheries extension agents across the

country. After graduating she served as ORISE postdoc with US EPA's Office of Wetlands, Oceans and Watersheds and worked on helping communities adapt to climate change.

June 28, 2019

Questions, Comments, Complaints: Why teach Paleontology?

Lexington, Kentucky, Mines and Minerals Resources Building, Room 101, Rose Street, UK Campus.

7:30pm

DANIEL J. PHELPS , (859) 296-4870

edrioasteroid@msn.com

The Kentucky Paleontological Society (KPS) presents:

Dr. Amanda Falk, Associate Professor of Biology, Centre College, Danville, KY

Biography

Amanda Falk graduated with a B. S. (Honors) in Biology from Lake Superior State University, performing a senior thesis on molecular and morphometric sexing of bald eagles and related species. She received her M.S. and Ph.D. in Geology from the University of Kansas, studying avian paleontology and ichnology—trace fossils—as well as anatomy and behavior of modern birds. During this time she began research in China and South Korea, supported by a U.S. Fulbright Grant from 2011-2012 that provided the opportunity to perform extensive research in China.

She has expertise in paleobiology, evolutionary biology, functional morphology, and fossil behavior. Her current research interests are studies of fossil avian anatomy, avian ichnology (the study of preserved behavior known as trace fossils—footprints, burrows, etc.), comparative studies of modern avian anatomy, studies of modern avian footprint production and tracemaking behavior, laser-stimulated fluorescence of fossils, and paleobiodiversity and mass extinction.

July 9, 2019

Louisville Youth Science Summit

Starts at Genscape and taking place at locations all over Louisville

1140 Garvin Place

Louisville, KY 40203

8am - 4pm

Day - long STEM event for Middle and High School students with hands on lab activities with scientists from universities, industry, and civic organizations.

\$45

July 11, 2019

Freshwater Mussel Communities in the Ohio River
8330 Mary Ingles Highway, California, KY, 41007

7-8pm

Mitchell Kriege '16 aquatic consultant, Environmental Solutions & Innovations Inc. (ESI)

Kriege is an environmental consultant who specializes in freshwater mussel and fish ecology. His primary research interests include life history of rare/endangered freshwater mussels, mollusk and fish relationships, and human impact on aquatic communities. Kriege is a product of Thomas More University (class of 2016) and attained his master's degree in biology from Marshall University (class of 2018) where he studied freshwater mussel communities in the Ohio River and their spatial relationship to fish hosts. During his master's degree research, Kriege quantified the freshwater mussel communities of an entire pool within the Ohio River and identified areas of robust mussel resources. As a consultant for ESI, he conducts aquatic studies throughout the eastern United States, analyzes complex datasets, prepares technical reports, and coordinates with state and federal agencies.

July 12, 2019
- July 20, 2019

SpaceTrek Science & Engineering camp for girls
Morehead State University

July 15, 2019
- July 17, 2019

Wetlands Management Micro-Credential
NKU Research & Education Field Station

NKU Research & Education Field Station is now offering a Wetlands Management Micro-credential that will provide professionals, students, and anyone interested the knowledge to identify wetland plants, assess wetlands biodiversity, and learn wetlands delineation and monitoring through investigation of critical areas. These professional short courses will cover criteria and reporting for the Eastern Mountain Piedmont region as well as the Midwest. Two required courses (Wetland Plant Identification and Wetlands Delineation) and one elective course are all that are needed to acquire the micro-credential and demonstrate your mastery of field skills and competencies, which is professionally invaluable to not only you, but also to your employer. 2019 courses at NKU REFS include:

- June 13, 2019 – Introduction to Wetlands (1 day, \$200)*
- July 15-17, 2019 – Wetlands Plant Identification (3 days, \$775)*
- August 5-9, 2019 – Wetlands Delineation (5 days, \$1100)*
- September 18-20, 2019 – Invasive Species Management (3 days, \$700)*

July 16, 2019

Learn about KY Tree ID

Raven Run Nature Sanctuary

What makes up Kentucky's forests? Learn about some of our most important trees, what makes a healthy forest, and how to identify them. Then head out on a walk to experience the forest and practice identifying some trees.

Presented by Laurie Thomas, University of Kentucky Cooperative Extension

July 18, 2019

Children of the night: the bats from Kentucky and important services they provide

Northern Kentucky University's Research and Education Field Station (REFS)

7-9pm

Presented by Luke Dodd, EKU

at Northern Kentucky University's Research and Education Field Station (REFS)

July 19, 2019

Nature at Night: Moths and More

9pm- 11:30pm

\$10 / sold out

Floracliff Nature Sanctuary has a diversity of moths that come in many different sizes and colors. We will have a few light stations set up with sheets to get a close-up look at our moths and other nocturnal insects.

July 20, 2019

Apollo 11 Party

Kentucky Science Center

727 W Main St.

Louisville, KY 40202

Celebrate the 50th Anniversary of the Apollo 11 moon-man-ding with the Kentucky Science Center! Details coming soon

If you want to help, please contact Andrew Spence.

July 20, 2019

Apollo 11 Celebration

Plan to spend the day at the Kentucky Science Center on Saturday July 20 to Commemorate Apollo 11! Join us for

A full day of hands-on demos and Moon & Space Science activities,

An evening screening of Capricorn 1

A panel discussion afterward with KAS scientists about the theory that NASA faked the moon landing, and other anti-science conspiracy theories!

If you'd like to volunteer to help out with programming that day, get in touch. The Kentucky Science Center is at 727 W Main St, Louisville.

July 25, 2019

How an invasive species succeeded in colonizing Greater Cincinnati and became a local icon
8330 Mary Ingles Highway, California, KY, 41007

,
7-8pm

Kimberly Wyatt '11 lab coordinator and instructor, Thomas More University

Wyatt is a Thomas More University alumna (Class of 2011, environmental science). She received her

Master Science in biology from the University of Cincinnati in 2013, then spent several years

performing research for the USEPA's Office of Research and Development before returning to work at

*TMU. Kimberly has studied the invasive common wall lizard, *Podarcis muralis*, for more than a*

decade. Her doctorate research is focused on elucidating the roles of microbiome and other factors

contributing to the success of this species in the Cincinnati area.

July 26, 2019
- July 27, 2019

Freshwater Mussels of Kentucky: A Floracliff Field Studies Workshop
Floracliff Nature Sanctuary

Friday, July 26th: 10:00 am to 3:00 pm; Saturday, July 27th: 9:30 – 4:00
info@floracliff.org

\$75/ sold out

Instructor: Michael Compton, Office of Kentucky Nature Preserves

Difficulty Level of Field Component: Moderate to Difficult

This introductory workshop will focus on the amazing group of animals known as freshwater mussels. Participants will learn about the life history, ecology, diversity, and conservation of mussels and will gain field and laboratory experience in the collection (shells only) and identification of them. Basic course material will be provided, but students will be expected to participate in all activities and should have the proper clothing and footwear to efficiently and safely navigate within the stream channel. Specific activities will include snorkeling and wading in the river to search for mussels. Field activities will occur in a nearby river (tentatively the Green River), but will be determined based on river and weather conditions during the scheduled workshop. Students should plan to get wet, have fun, and be amazed about the incredible animals that live at the bottom of the river.

Schedule:

Friday, July 26th: 10:00 am to 3:00 pm: indoor presentations at Floracliff Nature Sanctuary

Saturday, July 27th: 9:30 – 4:00: outdoor activities in nearby nearby river

Michael Compton is the aquatic zoologist for the Office of Kentucky Nature Preserves. He has over 25 years of experience in the collection, identification, and conservation of Kentucky's fish, freshwater mussels, crayfish, and aquatic insects.

Other Details:

Inclement weather back-up dates: August 2nd and 3rd

This workshop is limited to 12 participants. All participants must be 15 years of age or older. Participants between the ages of 15 and 17 must be accompanied by a participating adult. All participants must be able to swim.

Specific gear needed for the workshop:

Mask and snorkel

Durable, close-toed footwear

Clothing to wear in the water plus additional dry clothing

Towel

Optional gear:

Wet suit (recommended) for extended time in the water

Swimwear

Dry bag

Cancellation/Refund Policy: To cancel your registration and request a refund, please email info@floracliff.org at least 3 weeks before the event.

August 1, 2019

Summer Wetland Flowers at NKU REFS

Northern Kentucky University's Research and Education Field Station (REFS)

7-9pm

Led by Rick Boyce, NKU

August 5, 2019
- August 9, 2019

**Wetlands Management Micro-Credential
NKU Research & Education Field Station**

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August 11, 2019
- August 16, 2019

Ecological Society of America meeting in Louisville

Bridging Communities and Ecosystems: Inclusion as an Ecological Imperative
This is a joint meeting with the US Society for Ecological Economics. This gathering of over 3000 ecologists from around the country will involve research talks, poster sessions, career workshops, field trips, and plenty of opportunities to network. Early Bird registration is open through June 27. Students can volunteer to assist for 14 hours during the meeting and get their entire registration reimbursed. For more information: <https://esa.org/louisville/service-opportunities/student-volunteers/>

August 20, 2019

**The Insects of Raven Run
Raven Run Nature Sanctuary**

Spend an evening learning about the importance of insects, and then head out on a twilight walk to search for some of the beautiful moth, beetle, and other insect species that live at Raven Run. Blake Newton, University of Kentucky Cooperative Extension

September 17, 2019

**What's All the Flutter?: Protecting Our Monarchs
Raven Run Nature Sanctuary**

Learn about the monarch butterfly, the threats facing it, and Kansas University's monarch tagging program. Then, assist in tagging some monarch butterflies and take a walk to learn about how you can build your own monarch waystation. Anna Wiker, Raven Run

September 18, 2019
- September 20, 2019

**Wetlands Management Micro-Credential
NKU Research & Education Field Station**

NKU Research & Education Field Station is now offering a Wetlands Management Micro-credential that will provide professionals, students, and anyone interested the knowledge to identify wetland plants, assess wetlands biodiversity, and learn wetlands delineation and monitoring through investigation of critical areas. These professional short courses will cover criteria and reporting for the Eastern Mountain Piedmont region as well as the Midwest. Two required courses (Wetland Plant Identification and Wetlands Delineation) and one elective course are all that are needed to acquire the micro-credential and demonstrate your mastery of field skills and competencies, which is professionally invaluable to not only you, but also to your employer. 2019 courses at NKU REFS include:

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October 5, 2019
- October 6, 2019

**Spiders of Kentucky: A Floracliff Field Studies Workshop
Floracliff Nature Sanctuary**

Saturday, October 5th: 3 pm – 9 pm; Sunday, October 6th: 11 am – 4 pm
info@floracliff.org
\$65

Spiders are one of the most diverse groups of terrestrial invertebrates yet most people only seem to know of black widows, brown recluses, and wolf spiders. This workshop is designed to introduce you to the great diversity in spider forms and behaviors and train you to identify some of the common families of spiders. We will utilize a variety of collecting methods to create a specimen collection for the Floracliff preserve and we will identify our captures to the lowest taxonomic level possible. Since many spiders are nocturnal, will visit Trail's End at night to observe and document the spiders in the preserve.

Schedule:

James Wagner is a Professor of Biology at Transylvania University. He has been studying the behavioral ecology of insects and spiders for the last 25 years. His research has been highlighted on a Discover Magazine segment for The Discovery Channel and on an episode of Weird, True and Freaky on Animal Planet. In 2001, he was named Kentucky Professor of the Year by the Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education. Workshop Cancellation/Refund Policy: To cancel your registration and request a refund, please email info@floracliff.org at least 3 weeks before the event.

October 10, 2019

Children's Environmental Health Summit

Center for Rural Development

2292 S Hwy 27

Somerset, KY

8:30- 4

Description

The Kentucky Department for Public Health in collaboration with the Kentucky Population Health Institute, is hosting the Fourth Annual Children's Environmental Health Summit on Thursday, October 10, 2019 (National Children's Environmental Health Day). The brief agenda is below. This Environmental Summit is funded through EnviroHealthLink, Kentucky's Environmental Public Health Tracking Network.

WHO SHOULD ATTEND:

The target audience includes: decision/policy makers, administrators, teachers, childcare personnel, pediatricians, nurses, academia, environmental educators and providers, community health workers, and state and local public health staff who help assure a safe school, home, play, preschool and community environment for children. Possible topics that will be covered include adverse childhood events, JUUL and other POD systems, lead, child safety, preparedness, nutrition, prenatal exposure, asthma, rural health, healthy homes, built environment, green and healthy schools and community engagement, health equity, and more!

Tickets are free, however, if your plans change and you can't attend the conference please let us know or your agency will be billed to cover costs associated with the conference.

This event is pending approval for Continuing Education Credits:

Registered Sanitarians- pending 5.5 hours

Certified Health Education Specialist (CHES)-pending 6 hours

Nursing Contact Hours -pending 7.2 hours

Certificate of Attendance-can be provided by request for participant

When registering, please select the ticket type based on CE credits for your profession (1 person will choose 1 for the credit type, NOT the number of credits you want to receive) or select ENV Summit - no CE if this does not apply.

October 11, 2019

Trees, TreeSnap, & iNaturalist: A Citizen Science Workshop

Floracliff Nature Sanctuary

1:30- 5pm

\$10

Learn the basics of tree identification and how to record your observations using two different apps.

October 11, 2019
- October 12, 2019

Cumberland Watershed Climate and Biodiversity Conference

This conference is being organized by a coalition which includes The Kentucky Conservation Committee, Kentucky Heartwood, The Center for Biological Diversity, the Dogwood Alliance and the Livelihood Knowledge Exchange Network (LiKEN). We are inviting the following constituent groups to present:

*Local Government Entities (sustainability, land, conservation, biology)
Local Community Nonprofits who work in the climate or ecological sector
State-Based Nonprofits with a focus on climate, ecology or conservation
Frontline community groups (stakeholders who live in the region, with particular encouragement for participation from under-represented groups, communities of color, communities represented near and around public lands).*

Purpose:

Highlight challenges relating to climate change on species in and along the Upper Cumberland Watershed.

Provide new opportunities to exchange knowledge among a broad base of constituents and stakeholders.

Provide opportunities for public engagement in affected communities and encourage community-based solutions.

Strengthen relationships among stakeholder groups.

If you're interested in presenting, contact Lane Boldman.

October 12, 2019
- October 16, 2019

Submission deadline May 10 for 2019 Eastern Section AAPG (American Association of Profes

The 2019 Ohio meeting is scheduled for October 12-16 at the DoubleTree by Hilton Hotel Columbus-Worthington, located just off the I-270 beltway intersection with US 23 on the north side of the metro area.

You are invited to submit an abstract for an oral and/or poster presentation at the 2019 Annual Meeting of the AAPG Eastern Section. All topics of interest to the Eastern Section, the Division of Environmental Geosciences, Energy Minerals Division, Petroleum Structure and Geomechanics Division and Division of Professional Affairs will be considered for presentation.

Student presentations are encouraged. The technical program is expected to be comprised of two or three concurrent oral sessions and two poster sessions on October 14th and 15th .

Proposed Themes

- *Applied Geophysics, Petrophysics, and Data Analytics – Basins to Pores*
- *Utilizing Technology in Modern Exploration and Production*
- *Reservoir Characterization, Case Studies/Histories*
- *Recent Advances and Case Studies in Enhanced Recovery of Oil and Gas*
- *Historical Perspectives on Energy Development in the Eastern USA*
- *Conventional Petroleum Exploration and Production in the Eastern USA*
- *Hydrocarbon Exploration and Development from Unconventional Reservoirs*
- *Case Studies and Current Research on Environmental Impacts from Hydraulic Fracturing, Wastewater Disposal, and Minerals Extraction*
- *Energy Sustainability and the Environment*
- *Current Status and Future Prospects for Non-hydrocarbon Based Energy*
- *Horizontal Wells: Design, Drilling, Completion, Hydraulic Fracturing, and Production Techniques*
- *Regional Geology of the Eastern USA*

Abstracts should be submitted [HERE](#) by May 10th 2019.

Any questions should be addressed to techprog2019@esaapg.org

Please do not submit an abstract unless at least one author is prepared to present at the meeting.

Speakers are required to register for the meeting

October 14, 2019
- October 16, 2019

North American Association for Environmental Education (NAAEE) Research Symposium

NAAEE's annual Research Symposium brings together new and experienced researchers from around the globe to explore the current state and future directions of environmental education research and advance the use of practices proven to be effective. The symposium facilitates discussion about research in progress, fosters dialog about research-community partnerships, and provides opportunities for emerging as well as seasoned researchers to develop and expand their research skills.

Themes

The keynote events and concurrent sessions of the 2019 Research Symposium are organized around two themes:

EE Research Processes: Share knowledge and new directions in research processes to build our capacity and expertise as a research field.

EE Research Impacts: Collaborative conversations on, and contributions to, increase impacts of our research field in relation to EE policy and practice, locally, nationally, and globally.

In addition, there will be opportunities to meet with colleagues and mentors to discuss publishing and career advice, issues and concerns in the world of research, next steps for the Research Symposium, and how to hack #enviroed, among other topics.

Research Symposium registration includes the Tuesday afternoon Awards Reception and the Graduate Student & Early Career breakfast on Wednesday morning.

October 15, 2019

Kids Online in the Woods

Are you a parent or caregiver involved in the life of a child? Do you worry about their outdoor vs. screen time? Come learn about the benefits of getting kids outside and take away some tips and tricks to get your kids outdoors and loving nature! Jennifer Jennifer Hubbard-Sánchez, Raven Run

October 16, 2019
- October 19, 2019

new event

Lexington Convention Center

NAAEE's 48th annual conference is focused on the many ways that education is helping to create a more just and sustainable future for all. Sessions will focus on the three interwoven pillars of sustainability—social equity, shared prosperity, and environmental integrity—as well as how education can build hope, motivate action, and help achieve the global Sustainable Development Goals championed by the United Nations Development Programme and leaders in more than 170 countries. The conference will also highlight efforts to ensure that everyone, everywhere, has access to nature and high quality environmental education.

November 1, 2019
- November 2, 2019

Kentucky Academy of Science Annual Meeting

Berea College

November 19, 2019

KY Tree ID in the Winter

Raven Run Nature Sanctuary

Take your tree knowledge to the next level! Learn how to identify common trees in colder months when the leaves are not there to provide you with all the clues. Doug McLaren, University of Kentucky Cooperative Extension (retired)

December 7, 2019

Winter Birds, Christmas Bird Count, & eBird: A Citizen Science Workshop

Floracliff Nature Sanctuary

info@floracliff.org

If you are considering birdwatching as a new hobby, wintertime is a great time to start. We will cover winter birds of the forest and backyard and provide information on how to participate in one of the longest running citizen science programs.

This program is part of a citizen science workshop series we are offering in 2019. Citizen science provides opportunities to connect to nature, build community, and practice mindfulness, all while contributing to knowledge of the natural world. Each workshop session will include a 1-2 hour indoor identification presentation and a corresponding outdoor activity or event. Please see our events page for information about the other workshops.

Program leader: Beverly James, Preserve Director

Hiking Level: Easy

Cancellation/Refund Policy: To cancel your registration and request a refund, please email info@floracliff.org at least 2 weeks before the event.

December 17, 2019

Winter Birds of Kentucky

Raven Run Nature Sanctuary

Learn about the most common winter birds of KY and how to attract them to your home. We'll cover the history of the Audubon Society's Christmas Bird Count and teach you how to be a part of it. Ronan O'Carra