

Tuesday News



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4-H Volunteers for
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4-H 

WASHINGTON STATE UNIVERSITY
EXTENSION

Tuesday News – October 17, 2023

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Features

Save the Dates! State Equine Presentations for 2024!

Kim Baker & Jennifer Leach



SAVE THE DATE
2024
WA STATE 4-H
EQUINE
CONTESTS



UPDATE  The State Equine Presentations Contest date has changed from September at State Fair to **February 3, 2024** (on Zoom)! Help us spread the word!

 FEB 3, 2024 Location: Virtual	STATE EQUINE PRESENTATIONS CONTEST
 MAY 4, 2024  MAY 5, 2024 Location: Grant County Fairgrounds, Moses Lake	STATE HIPPOLOGY CONTEST STATE HORSE BOWL CONTEST Teams are encouraged to try both contests. Fun Derby Party Saturday after Hippology Contest!!
 SEPT 2024 STATE FAIR DATES TBD Location: State 4-H Fair Puyallup, WA	STATE HORSE JUDGING CONTEST Will be held during State Fair. Dates will be published with the State Fair schedule. STATE GROOM SQUAD CONTEST

Rules, Registration and Information: **WA State 4-H Horses**
<https://extension.wsu.edu/4h/projects/animal-science/companion-performance/horse/>



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WSU Extension programs and employment are available to all without discrimination. Evidence of noncompliance may be reported through your local WSU Extension office.



New for 2024 — the state equine presentations, formerly called “National Equine Presentations,” will no longer be held at the 4-H State Fair. This year, the equine presentation contest will be held February 3, 2024 and will be virtual. These are specific presentations for seniors that focus on the equine industry that include individual presentation, team presentation, and public speaking, with the top blue-ribbon winners eligible to represent the Washington State 4-H equine program at the Eastern 4-H Equine Roundup that is held the first weekend of November in Louisville, Kentucky.

More details will come later about the specifics of the contest, such as registration information, updated rules, etc.

We wanted to let counties know now about the revised date in order to prepare senior 4-H members at the county level for the state contest.

Kim Baker has agreed to be the coordinator for this state contest. If you have questions about the contest contact Kim at kim.baker@wsu.edu or Jennifer Leach, State 4-H Horse contact at jleach@wsu.edu

Submitted by Jennifer Leach, State 4-H horse contact

WSU Thurston County Extension Hosts 4-H Youth In Agriculture Series – Chicken Keep and Cull Workshop On October 22!

Emily Killeen



**Youth in Agriculture
Workshop Series
Chicken Keep and Cull**
Sunday, 10/22/23, 1 p.m.

For 4-H and FFA youth members.
Pre-registration required e-mail tc4h@co.thurston.wa.us

The 4-H Youth In Agriculture Series is a workshop series focused on raising animals and growing food for home use. It is hosted by the WSU Extension Thurston County 4-H Youth Development Program.

Workshop Description: Learn how to evaluate chickens based on the American Poultry Association (APA) Standard of Perfection. Faults, disqualifications, and health issues to cull for will be discussed while sorting a flock of heritage breed, dual purpose chickens. The second part of the workshop will include a chicken processing demonstration using the Thurston County Conservations District's chicken processing rental equipment. The second part of the workshop is optional.

What: Chicken Keep and Cull Workshop – first in the Youth in Agriculture series

When: Sunday, October 22, 2023

Time: starting at 1 p.m.

Who: Officially enrolled 4-H and FFA members and their adult mentors. (Parents/guardians, advisors, and/or 4-H club leaders are encouraged to attend with youth participants to help supervise and support learning after the workshop.)

IMPORTANT Required for the chicken processing portion (second half) of the workshop, all youth must attend with an adult chaperone/advisor/leader.

Where: Thurston County Fairgrounds, specific building and parking instructions will be shared with pre-registered participants.

Pre-Registration Required. Please e-mail: tc4h@co.thurston.wa.us

Pre-register **by 10/19/23** with youth and adult participant names, club or chapter name, and youth ages. Note: a 4-H parent permission form will be required at check-in for those not enrolled in Thurston County 4-H.

Suggested cash donation of \$5 per person or \$10 per family

Questions? Call 360-867-2157 or e-mail tc4h@co.thurston.wa.us

Download the workshop flyer [HERE!](#)

State 4-H Fair Equine Presentation Results Announced

Jennifer Leach

Congratulations to the seven senior 4-H members who participated in the State Equine presentations, held virtually on Sunday, September 17th. There were two team presentations, Charlotte Pestinger and Camille Talbot from Thurston County and Sierra Carlson and Sebastian Palmer from Snohomish County, and two

individual presentations, Dylan Qureshi from Snohomish County and Norah Gilbertson from Spokane County. Emmalee Broadbent from Snohomish County. presented for public speaking.

The top blue-ribbon winners in the above three categories are eligible to represent the Washington State 4-H Horse Program at the national contest called the Eastern National 4-H Horse Roundup that will be November 3rd through 5th in Louisville, Kentucky. They will be joining the State 4-H Horse Bowl Team and 4-H State Hippology teams, both from Snohomish County, along with the top four individuals from the State Horse Judging Contest.

The 4-H members representing the equine presentations at the National contest are the team of Charlotte Pestinger and Camille Talbot and Dylan Qureshi doing his individual presentation.

The contest could not have been successful without the efforts of the “officials,” includes judges Kelli Whidden and Alyssa Bowers, along with timer/scorekeeper-Ramona Leber, and tech support from Kim Baker.

On behalf of the Washington State 4-H Horse Program, congratulations to all the state winners; we wish them luck at the 2023 Eastern National Equine 4-H Horse Roundup!.

Submitted by Jennifer Leach, State 4-H Horse Contact and Coordinator of the State Equine Presentation contest



Save The Date! Washington State 4-H Volunteer Recognition Luncheon – October 28th!

Jana Ferris



Please join us in honoring our volunteers! Our 2023/2022 Volunteer Recognition Luncheon will be held Saturday, October 28 at 12:30 p.m. at The Armory in Ellensburg, WA. All state awardees (Alumni Award, Salute to Excellence Ten Year and Lifetime, Heather Rider Award, Volunteer Staff Award, [state] Friend of 4-H AND Hall of Fame) for years 2020, 2021, 2022, and 2023 will be honored. Volunteers of the Year and Teen Leaders of the Year for 2022 and 2023 will be honored through narrated video during the program.

All state awardees will receive an invitation directly to reserve their space at the event and will RSVP as indicated on their invitations. Others may attend at a \$20/person cost; registration for non-awardees opens on Friday, September 22, and can be found at: <https://www.eventbrite.com/e/722452523947>

Contact Jana Ferris at ferrisj@wsu.edu or 360-548-3301



Table Sponsorship Packages Are Available for the 2023 4-H Washington State Volunteer Recognition Luncheon

Denise Echelbarger

TABLE SPONSORSHIP PACKAGES ARE AVAILABLE FOR THE 2023 4-H WASHINGTON STATE VOLUNTEER RECOGNITION LUNCHEON

VOLUNTEERS...



Your sponsorship is a \$250.00 investment that will help the 4-H Washington State Volunteer Recognition Luncheon celebrate the contributions of volunteers who promote the positive development of youth in communities.

Sponsorship includes your logo and recognition on-screen and signage during the event.

To sponsor (\$250), go to our direct donation link for Washington State 4-H Excellence Fund at: <https://bit.ly/WA4H> or scan the QR code. Under Other, type in \$250, and at proceed to checkout, under Additional Comments please type "Volunteer Luncheon"



If you would like to purchase tickets to attend the luncheon please visit <https://www.eventbrite.com/e/722452523947>

State 4-H Fair Board Seeks Qualified Candidates For State 4-H Fair Manager Position Opening

The State 4-H Fair Manager Position Is Now Open!

The job description for the State 4-H Fair Manager position is available for download by clicking [HERE](#).

The State 4-H Fair Manager is not a WSU position, but reports directly to the State 4-H Fair Board. The salary is \$32,500, paid in twelve monthly installments. There are no benefits associated with this position.

This is a part time position of about 1,000 hours annually, with extended hours during August and September, during the fair cycle in Puyallup, Washington.

The position will remain open until filled.

Please forward your cover letter and resume to:

Washington State 4-H Fair Board
PO Box 1225
Puyallup, Washington, 98371-0233

or by email to the Fair Board at st4hfair@gmail.com.



Ask Dr. Universe: How Did One Comet Kill All The Dinosaurs? — Mya, 11.4, Virginia



Check out the latest episode of the [Ask Dr. Universe podcast](#)!

Dr. Universe: How did one comet kill all the dinosaurs? If crocodiles, snakes and birds came from dinosaurs, did it actually kill all of them? — Mya, 11.4, Virginia

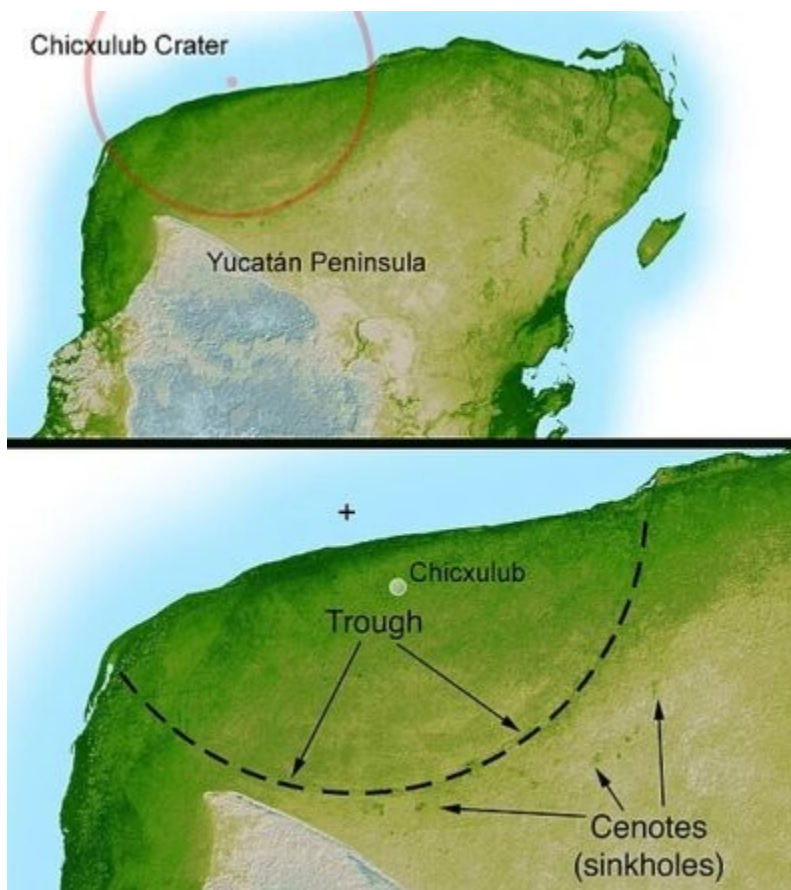
Dear Mya,

It's hard to imagine that one space rock wiped out the dinosaurs. But it did more than that. It killed 75% of the plants and animals on Earth. Me-OW.

I talked about that with my friend **Barry Walker**. He teaches geology classes about Earth's history at Washington State University.

Walker told me that we call a space rock that hits Earth a **meteorite**. The meteorite that took out the dinosaurs set off changes on Earth. Those changes lasted for thousands of years. That's how it killed so many things.

"We're not saying everything got wiped out immediately," Walker said. "Something happened, and within a geologically short amount of time—maybe 10,000 years or so—the damage was fully wrought."



*The Chicxulub crater shown with a red circle and black dotted line
Credit: NASA/JPL-Caltech/David Fuchs/Wikimedia Commons*

That something was a meteorite called Chicxulub. It crashed into Earth nearly 66 million years ago. It made a **giant bowl-shaped hole** in the ground called a crater. The crater is about 100 miles wide and around 12 miles deep. It's near Mexico.

The meteorite killed everything near the crater. It caused fires for hundreds of miles. It set off earthquakes, huge waves called tsunamis and volcano eruptions.

It also sent up a ginormous cloud of dust and soot. That cloud spread over the planet. Today we can see a layer of rock from that time all over the world. It contains a rare element called **iridium** that came from the meteorite.

All that dust, soot and wildfire smoke in the air blocked out the sun's light. Earth became dark and cold. Plants need the sun's light to make food. Without light, lots of plants died. Then plant-eaters and meat-eaters died, too.

Scientists think Earth was dark for about two years. But the changes on Earth lasted much longer.

The animals that survived mostly got lucky. They adapted to the changes and made homes where other animals couldn't. It was easier for animals who ate detritus—or bits of dead stuff. Or animals who could go without food for a long time. Like snakes and crocodiles. It was harder for big animals who lived on land.

Like the big dinosaurs.

But **some dinosaurs did survive**. They're still alive today. We call them birds. They belong to a group of dinosaurs called theropods. That's the same group that once included T. rex and velociraptors.

Scientists think that **bird-dinosaurs** without teeth were the ones that survived. They used their beaks to pick out tiny seeds in the soil. They were small so they needed less food.

Of course, no humans were around back then. Everything we know about Chicxulub comes from looking at clues. They're our best guesses.

"Science is a method of asking questions," Walker said. "All the stuff we're talking about is based on evidence. But being comfortable with uncertainty is a good thing. It's an opportunity."

The exciting thing about your question is that scientists are still answering it. For now, I guess you could say surviving the meteorite was for the birds.

Sincerely,
Dr. Universe

Dr. Universe: How do fish hear? — Lamarcus, 8, Ohio

Dear Lamarcus,

My goldfish roommate hates when people tap on his tank. The tapping sound he hears in the water is loud and scary.

I talked with my friend **Rikeem Sholes** about how fish hear. He's a fish scientist. He studies salmon hearing at Washington State University.

He told me that a fish's hearing system includes sensory cells in the inner ear and in a line along the outside of the fish's body and head. Some fish also use their swim bladder to have super hearing.

"A lot of people don't realize that fish have ears," Sholes said. "Fish don't have external ears like we do. But they do have an inner ear that looks a little different from ours."

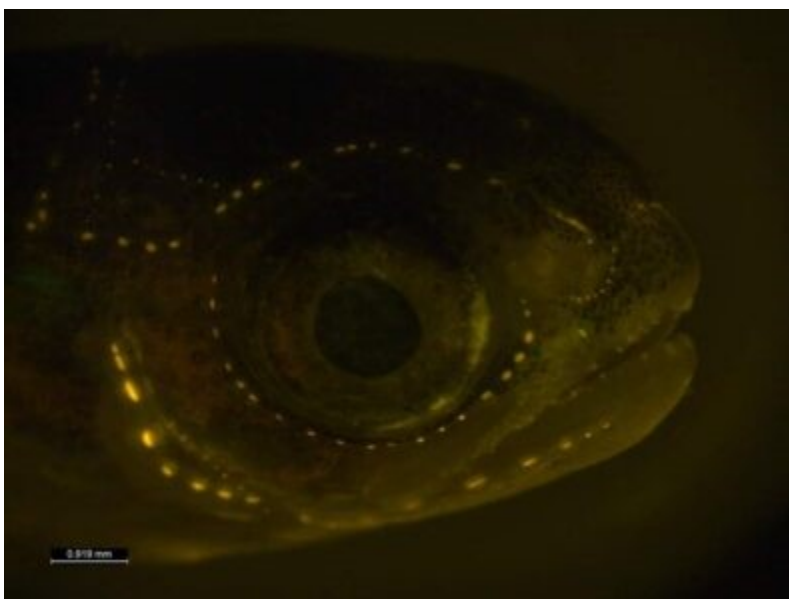
Your external ear is the flappy part attached to your head. It helps you collect sounds from the air. But the **sounds fish hear** travel through water. So, fish ears are under their skin.

Three dense stones sit inside a fish's ear—called otoliths or ear stones. They're made of calcium carbonate just like bones.

Tucked under those ear stones are sensory cells called hair cells. They're not really hair. They just look like tufts of hair under a microscope. Hair cells send electrical signals to the fish's brain.

Sound moves through the water and into the fish's body as a vibration. The vibration hits the ear stones and makes them move. As they move, the hair cells under the ear stones bend. When they bend, they send electrical signals to the brain. The brain uses that signal to understand what sound it's hearing and where the sound comes from.

Fish also have hair cells on the outside of their bodies. They circle around a fish's head and eyes. They make a long row down the fish's side called the **lateral line**. The hair cells of the lateral line are like feelers. As a fish swims, the water can bend those hair cells. That sends a signal to the fish's brain—just like the hair cells in their ears do. The lateral line helps fish swim in a school. It also helps them detect prey or predators.



This is part of the lateral line. Scientists can use a special dye to make hair cells and their support cells glow when the right kind of line shines on them. Then they can see them under a microscope.

Some fish can hear extra well, thanks to their [swim bladder](#). That's a sack of gas in the middle of a fish's body—like a balloon. It helps a fish float or sink depending on how much air is inside it. That's how a fish moves up or down in the water.

Some fish have a connection between their swim bladder and their ears. For them, the swim bladder amps up sound vibrations that hit the ear stones.

"It amplifies their ability to hear—like super hearing," Sholes said.

Maybe that's why tapping bothers my goldfish so much. We can [protect our fish friends](#) by being careful about the human-made sounds they hear in enclosures and in the wild. Thinking about how we affect other animals and ecosystems helps us all get along swimmingly.

Sincerely,
Dr. Universe

[Get more questions and answers here!](#)



Know a kid with a science question?

Help them submit it for a chance to be featured in a future Q&A.

[Submit a question!](#)

Q and A Sessions for the Washington 4-H Horse Program Continue – Now On First Wednesdays!

Have questions about the Washington 4-H horse program? **Our monthly Q and A for leaders, parents, members, and staff will now be meeting on the first Wednesday of each month via Zoom from 6:30 to 7:30 pm. beginning June 7th.**

Zooms are structured around the theme/parameters of horses and youth development. They are more than “what are the rules.” There is also time set aside for input on future topics for subsequent Zooms. **The Zoom meeting ID is 452-082-9765 with no passcode.** You must have a zoom account to participate.

The meetings are facilitated by Kim Baker, State 4-H Equine Coordinator.

Feel free to contact Kim with any questions at kim.baker@wsu.edu.