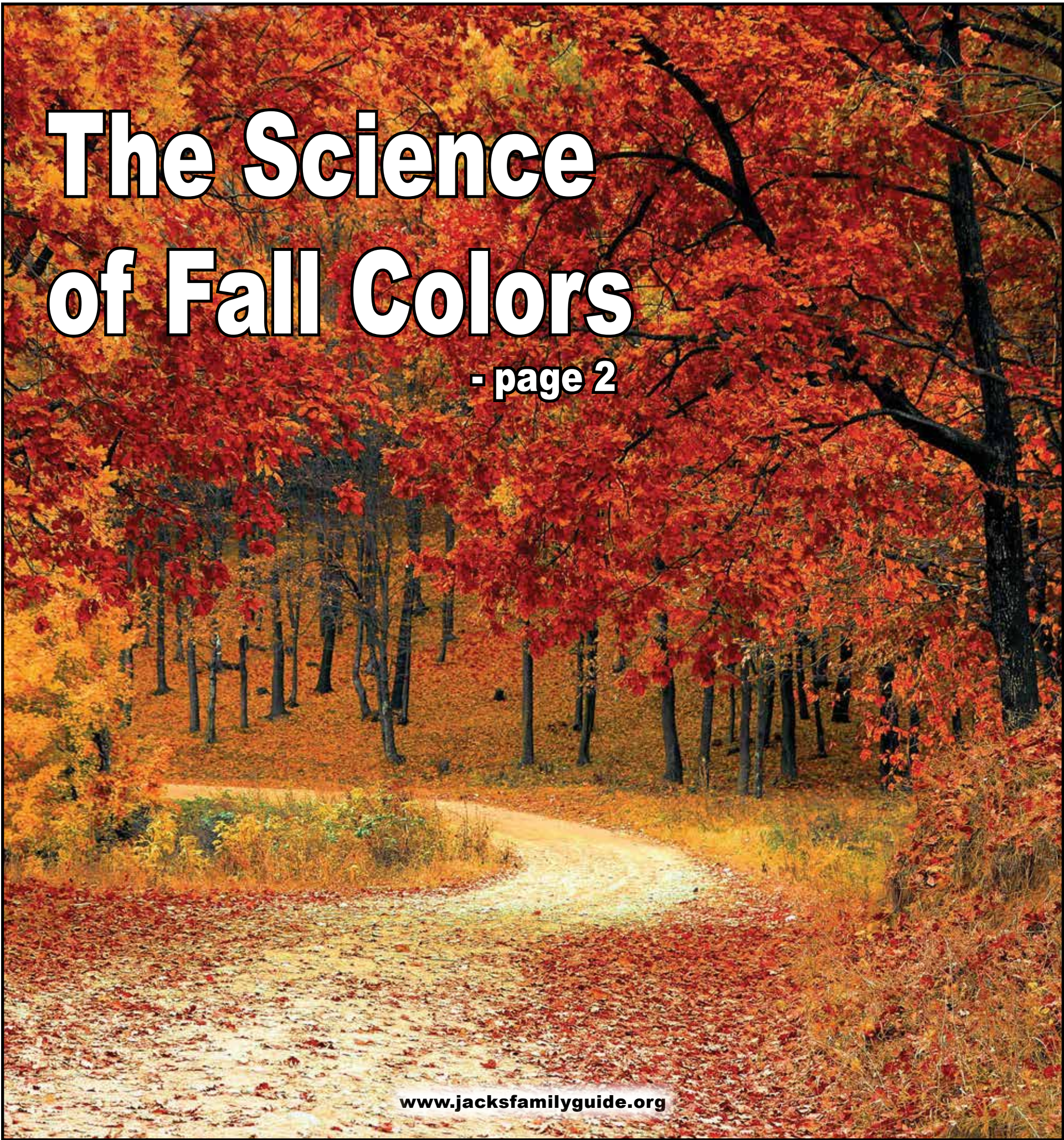


FREE

J.A.C.K.S.O.N

JACKSON AREA COLLABORATIVE KNOWLEDGE SOURCE



The Science of Fall Colors

- page 2

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Saturday, November 2, 2024

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Learn more at
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EST. 2015

The Science of Fall Colors

By Jean McKim,
Imagine Planet

October in Michigan is a time of awe-inspiring beauty, as the trees don their vibrant autumn colors. But what creates these stunning hues and what determines their brilliance in a given year? Thanks to the US Forest Service, we have a wealth of information to share about this natural spectacle.

First, what are the chemicals or compounds that make the color? The recognizable green hue of leaves is thanks to chlorophyll, which is necessary for photosynthesis. Photosynthesis makes tree's food from the sunlight. Anthocyanin gives us the bright reds, purples, and blues in our plants. Most anthocyanins are produced in the autumn in response to bright light and excess plant sugars within leaf cells. Carotenoids produce yellow, orange, and brown colors and are always present in the leaves. These colors are overwhelmed by the greens as long as the leaves are producing food.

Certain colors are characteristic of particular species:

- Oaks: red, brown, or russet
- Hickories: golden bronze
- Aspen and yellow-poplar: golden yellow
- Dogwood: purplish red
- Beech: light tan

- Sourwood and black tupelo: crimson

The color of maple leaves differs species by species:

- Red maple: brilliant scarlet
- Sugar maple: orange-red
- Black maple: glowing yellow
- Striped maple: almost colorless

Some leaves of some species, such as the elms, simply shrivel up and fall, exhibiting little color other than drab brown.

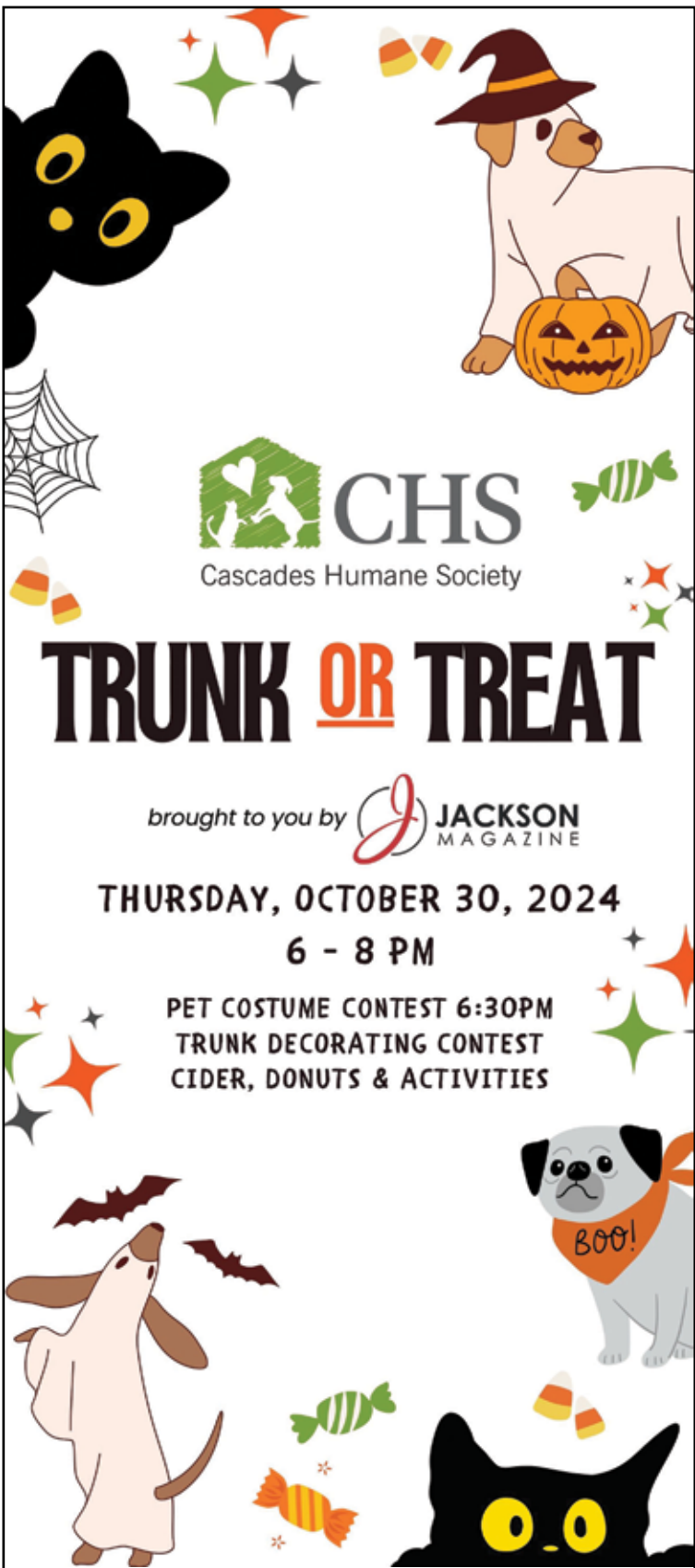
The timing of these changes varies by species and is influenced by the length of the night and intensity of the light. The amount and brilliance of the colors that develop in any particular autumn season are related to weather conditions that occur before and during the time the chlorophyll in the leaves is dwindling. While the timing is not affected by weather, the amount of color is. Temperature and moisture are the main influences.

A succession of warm, sunny days and cool, crisp but not freezing nights seems to bring about the most spectacular color displays. During these days, lots of sugars are produced in the leaf, but the cool nights and the gradual closing of veins going into the leaf prevent these sugars from moving out. These conditions – lots of sugar

and light – spur the production of the brilliant anthocyanin pigments, which tint reds, purples, and crimson. Because carotenoids are always present in leaves, the yellow and gold colors remain relatively constant from year to year.

The amount of moisture in the soil also affects autumn colors. Like the weather, soil moisture varies greatly from year to year. The countless combinations of these two highly variable factors ensure that no two autumns can be exactly alike. A late spring or a severe summer drought can delay the onset of fall color by a few weeks. A warm period during fall will also lower the intensity of autumn colors. A warm, wet spring, favorable summer weather, and warm, sunny fall days with cool nights should produce the most brilliant autumn colors.

What does that mean for us here in Jackson this year? According to WIX, "This year, there has been kind of a mix of extreme heat and extreme rain, and unfortunately, those two facts make it a little bit duller. As far as the colors go, it's not going to be as vibrant as it was last year." This news might be disappointing, but let's hope for the best with the rest of the fall weather. In the meantime, let's appreciate the colors of the sumac and look forward to those cool nights.



CHS
Cascades Humane Society

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THURSDAY, OCTOBER 30, 2024
6 - 8 PM

PET COSTUME CONTEST 6:30PM
TRUNK DECORATING CONTEST
CIDER, DONUTS & ACTIVITIES



OCTOBER 14
9 AM-NOON

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- Bordetella Vaccine: \$25
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Local Family Donates Swing to City of Jackson Park in Honor of Late Son

By Aaron Dimick,
City of Jackson
Public Information Officer
Families from across



Jackson are enjoying a new swing thanks to a donation. The Hritzak family donated the new feature to Betsy Butterfield Park on S. West Avenue. The swing honors their late son Bennett. This park was a favorite spot to visit, so his family wanted to remember



Bennett with an expression swing. The new feature allows a child and adult to enjoy swinging at the same time.

The family and community raised funds for the swing through basketball fundraisers and the page Crusaders for King B. The swing was dedicated in Bennett's honor in late Aug.

The City of Jackson thanks the Hritzak family for this donation. It will be enjoyed by families for years to come!



Photo courtesy of the City of Jackson

Hritzak family with new expression swing in Betsy Butterfield Park

Jackson Interfaith Shelter Celebrates 50 Years of Hope

Contributed by the
Jackson Interfaith Shelter

Jackson Interfaith Shelter (JIS) is pleased to announce they will be hosting a 50th Celebration Dinner on Saturday, November 23. The event will take place at the Commonwealth Commerce Center City View Room at 209 E. Washington Avenue in downtown Jackson.

This year has allowed the shelter to gratefully reflect on five decades of service in the community while also preparing the way to purposefully meet the need and enhance the care offered for the next 50 years. All are invited to join the Jackson Interfaith Shelter for a great

meal, a celebration of the organization's transformational impact on countless lives, and an opportunity to learn about and participate in the future expansion of services and facilities for Jackson's homeless families.

The program will begin at 6:00 p.m. and doors will open at 5:15 p.m. The Jackson Symphony Orchestra will be providing classical music. Tickets are \$35 per person and are available now at <https://www.interfaithshelter.com/> dinner. Registration closes Friday, November 8.

For sponsorship information, visit <https://www.interfaithshelter.com/sponsor> or email bekeh@interfaithshelter.com.

About the
Jackson Interfaith Shelter

Jackson Interfaith Shelter is Jackson's emergency homeless shelter. The shelter has 76 beds and serves nearly 700 men, women, and children every year. Additionally, community meals are served three times a day, 365 days a year, at 7:30 a.m., 12:00 p.m. and 5:00 p.m. Over 70,000 meals are served each year thanks to generous donations from community partners. To learn more about the mission of JIS, or the upcoming 50th Celebration Dinner, visit <https://www.interfaithshelter.com>.

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Jackson County Animal Shelter's Adoptable Pets: Malcolm and Mr. Plum

Contributed by the Jackson County Animal Shelter

Malcolm
Malcolm is a five-year-old American Staffordshire mix with a medium build and shorter legs. When he arrived, he was not in the best condition, but with care, he's gained weight and his skin issues have cleared up. Now, Malcolm is learning to embrace the world - experiencing things like going for walks, rolling in the grass, enjoying treats, and meeting new people. Although he can be a little nervous around new things, he's making steady progress. We've slowly watched him come out of his shell, and his tail is starting to wag more often. Malcolm would thrive in a calm, quiet environment with an experienced dog owner who can give him the time, patience, and understanding he needs to continue his journey. Dog adoptions require

an application, which you can find online here. The availability date is when the dog becomes JCAS property; however, any necessary medical procedures may cause a slight delay in the adoption process. A mandatory meet & greet with your dog is essential. A cat room walk-through is available to

social guy who gets along well with the other cats. He's content to tuck his front paws under him and mind his own business, but he also enjoys being petted and receiving treats. Stop by and meet this guy today at the Jackson County Animal Shelter, 3370 Spring Arbor Rd., Jackson, Michigan.

Cat adoption fees are \$60 for one cat, \$80 for two, which will include applicable tests, vaccines and spay/neutering. Any necessary medical procedures may slightly postpone an adoption. While visiting the shelter is always recommended, you can also submit an online cat application here, fax it to 517-780-4750, or email it to animalshelter@mijackson.org. For more information, visit our website at mijackson.org/579/Animal-Shelter. Find us on Facebook or view all pets on Petango.com-Shelter Details. Current Shelter Hours: Mon, Tue, Wed, Fri 10:00-4:30, Thu 10-7, Sat 10-4:30.



test reactions. Dogs will be placed with approved applicants, and the adoption fee is \$150 for medium/large dogs and \$250 for puppies/small dogs, which includes vaccinations, microchip, and sterilization.

Mr. Plum
Mr. Plum is a three-year-old, handsome grey cat with charming white markings. He came to the shelter after his owner passed away. Mr. Plum is a friendly, calm, and



Cascades Humane Society's Pet of the Month

Contributed by Cascades Humane Society

Meet Carmen, a charming five-month-old female puppy ready to find her forever home! Weighing around 35 pounds, she has a beautiful white coat with tan spots and a sweet, gentle nature that shines through once she feels comfortable. Although she may start off a bit shy, Carmen is eager to learn and embrace the love of a family, making her a wonderful companion for those willing to offer her patience and understanding. Her adoption fee of \$310 in-

cludes spay surgery, micro-chipping, vaccinations, and a clean bill of health, including a negative heartworm test. Carmen adores treats and cuddles, and with the right care, she will flourish

eagerly awaits her forever family. Come meet Carmen and see if she's the perfect addition to your home!

About the Cascades Humane Society

Organized and incorporated in 1952, Cascades Humane Society is dedicated to improving the lives of animals, promoting responsible pet ownership, and creating lasting connections between pets and families. If you are interested in donating or volunteering, please call 517-787-7387 or email hgolightly@chspets.org.



2023
IMPACT



Cascades Humane Society



1,200 TOTAL ADOPTIONS

384 PETS SAVED FROM HIGH-KILL OR AT CAPACITY SHELTERS

14,938 POUNDS OF PET FOOD GIVEN TO PETS IN NEED

900 OWNED CATS OR DOGS SPAYED OR NEUTERED

Learn to Love Your Hometown

Pumpkin Quest 2024: Fall Fun in Brooklyn, Michigan

By Val Herr

Enjoy the season in small-town America with Pumpkin Quest in downtown Brooklyn. For the past decade, a group of volunteers has ensured that children of all ages are able to experience Halloween with family-friendly FREE activities. Join other families on Saturday, October 12, from 11 a.m. to 2 p.m. to

experience Halloween in a small town. Free activities include a costume contest, pumpkin chucking, bounce house, face painting, hayrides, and a make-and-take scarecrow station. All these FREE activities are courtesy of local nonprofits and businesses. Local businesses will be open for shopping, as well as food trucks to satisfy your hunger. Additionally, at noon, there will be a costume parade with a chance to win a prize for the best costume.



Photo by Valeriia Miller

All are encouraged to bring canned goods or non-perishable items to support the local food pantry and will be able to pick and take home a pumpkin of their choice. Brooklyn's "pumpkin patch" will have many pumpkins to choose from, sponsored by The Brooklyn Kiwanis Club and grown by Prielipp Farms & Greenhouse.

This community event is designed to bring families together while supporting a good cause. Donations to the Brooklyn Food Pantry help ensure that local families in need can enjoy a warm meal during the holiday season.

For more information, or if your business would like to participate in Pumpkin Quest, please contact savannarosedancestudio@gmail.com.

Come out to Downtown Brooklyn for a day of fun, pumpkins, and community spirit! This is a wonderful opportunity to slow down and create magical family memories. We hope to see you there!

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JTV

A collage of four images showing various news and sports segments from JTV. The top image shows a man in a suit sitting at a desk. The second image shows two men in JTV-branded jackets. The third image shows a woman and a man sitting at a table. The bottom image shows a man and a woman sitting at a desk.

A photograph of a woman and a young girl sitting together, looking at a laptop screen. The woman is pointing at the screen, and the girl is smiling.

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South Central Michigan Virtual Welcomes Kristopher O’Leary as New Assistant Principal

Contributed by Jackson Public Schools
Jackson Public Schools is pleased to announce Mr. Kristopher O’Leary as the new Assistant Principal at South Central Michigan Virtual.

Mr. O’Leary began his journey in education at Siena Heights University where he earned his undergraduate degree Social Science and Elementary Education in 1994. He went on to get his Master’s Degree in Middle Level Education

in 2001, also from Siena Heights University

Mr. O’Leary boasts three decades of experience in K-12 education. Throughout most of his teaching career, he focused on 5th and 6th grade instruction within Saline Area Schools. His foray into school administration began as an Assistant Principal at Kidder Middle School in Northwest Community Schools. During the final ten years leading up to his retirement in 2019, Mr. O’Leary served as a build-

ing principal and director in Garden City Public Schools.

Following his retirement, Mr. O’Leary briefly worked for NBC Sports. Mr.O’Leary felt compelled to reenter the educational realm after taking note of the 2022 change in legislation allowing retired individuals to work in Michigan public schools. He subsequently assumed the role of Elementary Attendance Success Coach at Jackson Public Schools in early 2024.

“I am thrilled to join

SCMV. The distinctive program offerings and tiered support systems for our students are truly unparalleled,” remarked Mr. O’Leary.

“I am thrilled to welcome Kristopher O’Leary as the new Assistant Principal of SCMV,” said Mr. Fred Parker Jr., Director of Operations, SCVM. “With over 30 years of experience in K-12 education and a strong background in instructional leadership, student support, and alternative education,

he brings valuable expertise that will help drive our mission of providing a high-quality virtual and hybrid learning environment. His leadership, passion for education, and commitment to student success make him an exceptional addition to the

South Central Michigan Virtual and the Jackson Public Schools family. We are excited about the positive impact he will have on our students, staff, and school culture.”

American Girl Tea Party to Kick Off Halloween Season at Jackson School of the Arts

Contributed by Jackson School of the Arts
This month, Jackson School of the Arts (JSA) is bringing back their much loved American Girl Tea Parties. The first of three tea parties is taking place on October 12 from 10:00 a.m. to 12:00 p.m. at JSA’s downtown location, 135 W. Cortland St. With its “Great Pumpkin” theme, this seasonal event will surely delight children and their beloved dolls - both of whom are invited to the party.

The tea party promises an array of engaging activities, including spooky glowing games in the dance room and an opportunity for children to create their own painted pumpkins. As with past

American Girl Tea parties, JSA encourages participants to dress in their Halloween costumes and bring their favorite doll or stuffed animal to join in the fun.


In addition to the festivities, attendees will be treated to a tasty Halloween treat and cider to complete this special morning. This event offers a wonderful chance for children to embrace the Halloween spirit in a creative and kid-friendly setting.

JSA also has American Girl Tea Party events planned for December and February.

For more information and to register, visit <https://jacksonarts.org/events> or email info@jacksonarts.org.



Photos courtesy of Jackson School of the Arts




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THE MAGIC OF COMMUNITY



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COMMONWEALTH CITY VIEW ROOM

FIND MORE INFORMATION AT

JACKSONYMCA.ORG



Tickets, tables and sponsorships available
@<https://bit.ly/partyforacause2024>

College & Career Access Center, October Scholarships

Association for Iron & Steel Technology – Steel Intern Scholarships

Description: The AIST Foundation offers up to Fifty (50) Steel Intern Scholarships valued at US\$7,500 per year each, including the Premier Intern Scholarship valued at US\$12,000 per year. These scholarships require a commitment to a paid summer internship at a North American steel producing company or steel-related company during the Summer of 2025. Internship may require temporary relocation. Undergraduate sophomore and juniors, and seniors heading into their first year of graduate school may apply.

To qualify for a scholarship, you must meet the following criteria:

- I am a citizen of the United States, Canada or Mexico.
- I am enrolled full-time in a four-year undergraduate or entering year one of a two-year graduate program at an accredited North American University.
- At the time of application in October 2024, I am a university Sophomore, Junior or Senior planning to enter year 1 of graduate school. Applicants must have a minimum of one semester following the internship during the summer of 2025.
- Graduate student applicants must be entering year one for the 2025-2026 academic year.

- I am majoring in engineering, engineering technology, computer science, data science, environmental/sustainability science, and industrial safety.
- I have a minimum cumulative GPA of 2.5 on a 4.0 scale.
- I am able and willing to relocate for the required internship, if necessary.
- I have a strong interest in the iron and steel industry.

Award: One-year scholarship between \$7,500 and \$12,000 with a paid Summer internship

Deadline: October 14, 2024

American Trucks Student Scholarship

Description: At American Trucks we are passionate about our mission to Serve the Community that supports us. We've recognized a growing trend in the building trades industry. Educational programs are receiving a lot of attention from national leaders and it's our goal to be involved in a

meaningful way. With that in mind, we are pleased to offer 2 x \$2500 scholarships to students pursuing a career in the traditional building trades such as HVAC, carpentry, electrical, or related fields of study.

One scholarship will be awarded for the fall semester, and one scholarship will be awarded for the spring semester each year.

Eligibility:

- Currently enrolled full-time in an accredited United States technical institute, 2/4 year college/university with a program in construction management, secondary votech school or tuition bearing apprenticeship program in the traditional building trades(e.g. carpentry, HVAC, electrical or related fields of study). Students pursuing certificate programs or apprenticeship programs are welcome to apply.
- Currently attending high school and will be attending an accredited school in the next academic year to one of the aforementioned programs.
- Note: All scholarship applicants are required to submit proof of enrollment* when submitting applications with the button on this page.

Award: \$2,500

Deadline: October 15, 2024

NSCA Foundation Scholarships

Description: The purpose of the National Strength and Conditioning Association Foundation (NSCAF) is to support the mission of the National Strength and Conditioning Association by providing funding for educational and research activities that enhance the practical application of strength and conditioning. All general and specific guidelines for each respective scholarship are outlined at the sponsor website and should be closely read by the applicant to ensure all guidelines have been met prior to submission.

Eligibility: All scholarship applicants must be National Strength and Conditioning Association (NSCA) members at the time of application deadline and must be pursuing careers in strength and conditioning. Applicants are not eligible to win more than one scholarship in any given year; however, applications can be made in more than one scholarship category in a given year. Applicants are eligible to

receive up to two scholarships from each category for which they qualify.

Award: \$2,000 for each respective scholarship

Deadline: October 15, 2024

Northern Michigan University Presidential and Leadership Awards

Description: The Presidential Scholars Competition is designed for high school seniors and transfer students to compete for a limited number of "full-ride" scholarships and approximately 200 additional scholarships. Our Fall 2025 competition will have two in-person competitions and a virtual competition option. Students choose one to attend. * See host site for competition details

Eligibility:

- High school Senior, graduating in 2025, and entering college in Fall 2025.
- High school GPA is 3.50 or higher (cumulative, 9th-11th grade).
- Must be admitted to NMU before applying for this competition.

• If you are in an early college credit program, you are eligible to compete if you are in your final year of high school, have a high school GPA of 3.5+ and are entering college as a degree-seeking student the following year.

Award: Depending upon individual scholarship, awards vary – up to 'full ride' (tuition + room and board)

Virtual registration deadline: October 16 at 8 a.m. Eastern Time (for October 27-28, 2024)

In-person, on campus registration deadline

- October 21 at 8 a.m. Eastern Time (For Nov. 3-4, 2024)
- October 28 at 8 a.m. Eastern Time (For Nov. 10-11, 2024)

Central Michigan University Centralis Awards

Overview: Our competitive scholarships for incoming freshmen are awarded based on a variety of factors, including academic success, community engagement, leadership, en-

hancing diversity, multiculturalism and inclusion, and more.


These require a separate application and have application deadlines different than our merit awards. Once you submit an application for admission, the competitive scholarship applications you qualify for become visible in your applicant portal.

Eligibility:

- High School Seniors, currently enrolled or who have applied to Central Michigan University.
- Must have a 3.7 GPA or higher when applying.
- Award: Covers 100% of tuition (up to 33 credits per academic year) and \$5,000 to study away OR Covers 100% of tuition and fees (up to 33 credits per academic year), housing and food, \$250/semester book allowance, and \$5,000 to study away.

Deadline: October 31, 2024


For the full list of monthly scholarships, please visit the College and Career Access Center's website at jacksoncac.org/




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