



GUITAR:
THE INSTRUMENT THAT
ROCKED THE WORLD

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From the Director



Bill McElhone

The fall season is marked by many changes, including cooler temperatures, leaves changing color, and the return of fall activities. For the Museum, the opening of the new Innovation Gallery science exhibit, ThinkTank, and Innovation Lab marks a significant update to the exploration and experience of the sciences. This new exhibit and interactive area, four years in the making, will include team building activities

as well as one-on-one dynamic, technology-rich exploration of four major areas: Body, Land, Mobility, and Music. See pages 10 and 11 for a sneak peek!

Also arriving this fall are two new special exhibits: *Hateful Things*, an exhibition from the Ferris State University Jim Crow Museum of Racist Memorabilia, and *GUITAR: The Instrument That Rocked The World*, from the National Guitar Museum.

Hateful Things, curated by Dr. David Pilgrim, Museum founder and Vice President for Diversity and Inclusion at Ferris State University, lives up to its provocative title, showcasing 39 items from the late 19th century to the present day. All of the pieces, as well as several images of violence, help to illustrate the effects of the Jim Crow laws against African Americans. The exhibit is meant to examine the history of racism as well as present day stereotyping, and to help promote racial healing. As part of the Museum's ongoing desire to promote important discussions on sensitive topics such as race, the *Hateful Things* exhibit will open up with a special presentation by Dr. Pilgrim on Sunday, September 17, 2017. Please see the calendar and page 3 for more details.

GUITAR: The Instrument That Rocked The World opens September 30, 2017, offering attendees an entertaining, engaging, and hands-on experience with one of the most important cultural icons in history: the guitar. The exhibition is comprised of three elements: the science of sound; the evolution, engineering, and design of the guitar; and its cultural impact. For more information, see pages 4, 5, 12, and 13.

In addition to these special exhibits, be sure to check out the Museum's permanent interactive exhibits, including *Science On a Sphere* and wide variety of fall programs, including an expanded planetarium show schedule, Sunday Lecture Series, Art Hops, Chemistry Day, Safe Halloween, Holiday Parade festivities at the Museum, and Hands-On events. Please visit the Museum's website for additional programming details at kalamazoomuseum.org.

Have a wonderful fall full of fun, creativity, and living well. museON, everyone!

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Hateful Things Exhibit STRIVES TO TEACH TOLERANCE AND PROMOTE SOCIAL JUSTICE

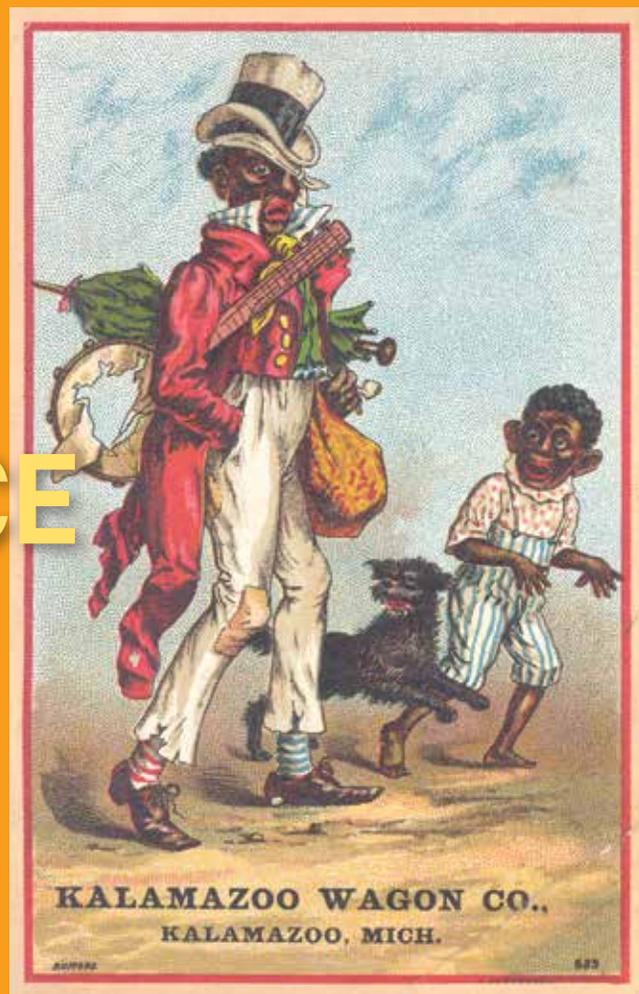
The Hateful Things traveling exhibit from the Jim Crow Museum of Racist Memorabilia at Ferris State University will be on display at the Kalamazoo Valley Museum September 17, 2017, to January 14, 2018.

Hateful Things contains 39 items from the late 19th century to the present day, a sampling of objects that represent nearly 150 years of anti-black, racist objects and images. The Jim Crow Museum of Racist Memorabilia at Ferris State University offers this traveling exhibition to further its mission of stimulating the scholarly examination of historical and contemporary expressions of racism and to promote racial understanding and healing.

Hateful Things is an important reminder of the racism that existed, and still exists, in America today. Many of the objects in the exhibit represent everyday household items, highlighting the pervasiveness of racism, which often went unidentified and unnoticed even in northern states. Each piece is accompanied by a panel explaining its historical and cultural significance. All of the pieces, as well as several images of violence, help to illustrate the effects of the Jim Crow segregation laws enacted against African Americans between 1877 and the mid-1960s. This system of laws and practices denied full freedom and citizenship to African Americans, segregating nearly all aspects of public life.

"This exhibit contains examples of disturbing objects and images from both the past and the present," said Kalamazoo Valley Museum Director Bill McElhone. "Through these objects and images, the viewer is able to gain an understanding of the historical as well as current stereotyping of African Americans. Most importantly, the exhibition gives viewers new eyes with which to see present-day images of racial stereotyping that might otherwise pass unchallenged."

Due to the mature nature of Hateful Things, viewer discretion is advised for sensitive viewers and for those with children under the age of 12



Trade card with racist African-American caricatures, c. 1890

In its many years of collecting, the Kalamazoo Valley Museum has accumulated over 60 items that misrepresent African Americans in racist and stereotypical ways. For the first time, some of these artifacts will be on exhibit during Hateful Things.

Many of these items were made or used in the Kalamazoo area. Among the objects exhibited will be advertising cards from local businesses with African-American caricatures, mammy dolls, and a black-face minstrel costume worn by a member of a minstrel troupe that performed in Kalamazoo in the 1920s.

While many of these items are offensive, they can be used to teach the history of race relations in southwest Michigan and the United States. By confronting our history, we hope to highlight the ongoing dialogue in and around Kalamazoo aimed at healing racism and becoming a more inclusive and equitable community.

Dr. David Pilgrim, founder and curator of the Jim Crow Museum of Racist Memorabilia at Ferris State University, will open the Hateful Things exhibit with a gallery talk on Sunday, September 17, at 1:30 p.m. His book, "Understanding Jim Crow: Using Racist Memorabilia to Teach Tolerance and Promote Social Justice," will be available for sale. For more information about the Museum and Dr. Pilgrim's book, please see <http://www.ferris.edu/jimcrow/>.

The touring exhibit **GUITAR: The Instrument That Rocked The World** will be displayed at the Kalamazoo Valley Museum September 30, 2017, to January 7, 2018. It offers an entertaining, hands-on experience with one of the most important cultural icons in history.

The exhibition is comprised of three elements: the science of sound; the evolution, engineering, and design of the guitar; and its cultural impact. Because it delves into music, science, history, pop culture, video, education, interactive displays, and games, visitors will be engaged through sight, sound, and touch.

"It has an immense cool factor and is designed to attract all age groups – from individuals to families," said Kalamazoo Valley Museum Director Bill McElhone. "Kids, teenagers, adults. . . every age group has its own connection to the guitar, from classic rock songs and concert memories to film soundtracks and video games. The guitar has no boundaries."

Exhibit features include:

- More than 70 acoustic, electric, historical, unusual, and antique guitars
- Science of sound and music
- Video displays
- Hands-on interactives
- The world's largest playable guitar as certified by Guinness World Records – a 43.5-foot-long, 2,255-pound Gibson
- Interactive kiosks, computer displays, and sound stations
- Listening environments for each musical genre (classical, jazz, blues, country, folk, and rock)
- **Photos, graphics, projections, and illustrations highlighting:**
 - History and Art of Guitar Design, by noted illustrator Gerard Huerta
 - Guitars and Personality, with photos by Neil Zlozower
 - "Vintage Steel" X-rays of Historic Instruments, by Professor John Thomas

Kalamazoo Valley Community College history instructor Jay Gavan is a musician and stringed instrument builder (luthier) who said he thinks there is almost universal appeal toward the guitar, and stringed instruments in general. "So much of Western culture goes back to the idea of strings stretched over a sound board and plucked, strummed, or bowed, and this exhibit superbly illustrates the position of the guitar in that culture," Gavan said. "It highlights the guitar not only as an instrument for producing blues and bluegrass and rock and roll music, but also as a showroom for innovations in technology and design. And, from humbucking pickups to the Flying V to flaming sunburst lacquer finishes, Kalamazoo has played a very important role in establishing this cultural position for the guitar."

Gavan noted that the Kalamazoo-based Gibson Guitar Company built hundreds of thousands of guitars and other stringed instruments in the city, beginning with Orville Gibson's late-19th-century innovations in archtop designs and lasting until Gibson moved in the 1980s. "That legacy has left Kalamazoo in the unique position of being a relatively small community with one of the highest per capita ratios of luthiers in the world," Gavan said. "Kalamazooans who once worked for Gibson, who have a family member who once worked at 225 Parsons Street on Kalamazoo's north side, or who are still building guitars in Kalamazoo to this day can be found in every corner of town. And every day, many of them are still tinkering with designs, building new instruments, and picking up their Kalamazoo-made axes and jamming."

"The guitar has no boundaries" -Bill McElhone





Ike Turner, who plays in the band Out and teaches English and History of Rock and Roll courses at Kalamazoo Valley, said he thinks the guitar is so popular because it's relatively easy to master.

"I think the appeal of the guitar lies in the relative ease with which a person can pick up the instrument, hash out a few chords, and go right into the phase of creating or writing a song," Turner said. "The learning curve to become a somewhat competent player isn't that steep, but to be really great takes years of practice." Turner notes that guitars can also be fairly inexpensive. "The initial investment isn't that much at all, and many times you'll have a great instrument on your hands, too," he said.

Turner also credits Gibson Guitars with helping to establish the guitar as a cool instrument. "The omnipresence of rock music by the mid-1940s really solidified it as a cool instrument in our public consciousness. Gibson had a lot to do with that, obviously. It remains that to this day, I believe. A great deal of rock music is made without guitars at all, but again and again the exciting stuff that comes along inevitably uses the electric guitar as the basis."

Even non-musicians thrill to the sound of a guitar. "It's just an exciting sound! There's such a range of sounds that a person can experience with such a simple instrument," Turner said. "It can always seem fresh."

GUITAR: The Instrument That Rocked The World is a Touring Exhibition of The National GUITAR Museum.



The Musical Life of **CLARENCE SMALL**

Clarence Wilbur Small was born in Grand Rapids, Michigan, in 1924. He and his twin sister, Clara, were in an orphanage, and at 6 months old, they were put on a train to Kalamazoo. Waiting at the “Whistle Stop” at Pitcher Street and East Michigan Avenue were Joseph and Eppie Small, who added the twins to their family.



Clarence Small (far right) and The Wingmen

The Smalls, the only black family in their neighborhood, lived on South Westnedge Avenue where Outback Steakhouse is now. Joseph ran the 20-acre property as a farm. Clarence attended South Westnedge Elementary School, then Vine School, finishing at Kalamazoo Central High School.

Eppie, a graduate of the Chicago Conservatory of Music, taught her children to play piano and encouraged musical pursuits. Clarence had violin lessons from a member of the Kalamazoo Symphony Orchestra and joined the Boy Scouts drum and bugle corps, playing drums. After graduating high school in January of 1942, Clarence’s life changed: he was called to sing with the group “Wings Over Jordan.”

The choral group “Wings Over Jordan” was started in Cleveland, Ohio, by Pastor Glenn T. Settle. In the 1930s, Cleveland had radio hours for various immigrant populations, but nothing for African Americans. This changed in 1937, when “The Negro Hour” debuted. By January of 1938, the show was renamed “Wings Over Jordan” and went national when it was picked up by CBS. Each week, the broadcast included the musical stylings of the choral group as well as an African-American artist or scholar, including the likes of Langston Hughes and Mary McLeod Bethune. Thousands of listeners were able to tune in thanks to the reach of CBS’s broadcast. “Wings Over Jordan” was the first full-time

professional African-American choir in the US. The choral group sang spirituals, reviving African-American musical traditions and bringing those traditions to a larger range of listeners. After a wage dispute early in 1947, CBS cancelled the program, but at the height of its popularity, the choir performed to sold-out, non-segregated audiences worldwide. With the sponsorship of the USO, the group also performed at Army camps in Europe during World War II.

Clarence’s first concert with the group was the 4th of July celebration at Cleveland Stadium in Ohio, singing in front of a crowd of 90,000. Clarence traveled with the group across the US, taking a break to serve during World War II. Along with other members of the choir, Clarence formed “The Wingmen,” a quartet who were so good they were asked to play 3 or 4 songs at every “Wings Over Jordan” concert. “The Wingmen” went to California and recorded two albums for the label Downbeat in Los Angeles in 1948. The group was successful, playing at the Friar’s Club – George Burns even asked them to come over to his table.

After several years in California, Clarence returned to Kalamazoo in 1950, where he has continued to perform, lecture, and teach.

He was awarded the Kalamazoo Community Medal of Arts in 1994, and in 2004, “The Wingmen” were named Quartet of the Year by Downbeat Magazine. Clarence is still active in the musical community, serving as an organist at varying churches, continuing to play the violin, and teach others to sing. Most recently, he performed at the waterfront in St. Joseph, Michigan, on July 4, 2017, continuing his long history of performance.



Clarence Small (right) in front of “Wings Over Jordan” touring bus, mid-1940’s

THE SPANISH INFLUENZA

ONCE CLOSED KALAMAZOO GATHERING PLACES

In the fall of 1918, in the midst of a World War, a new horror began creeping across the United States – the Spanish influenza. The “flu” killed 675,000 Americans between August of 1918 and March of 1919; in the city of Kalamazoo, 218 died. Around the world, the true death toll will never be known, though estimates range from 22 million to 60 million.

Did the flu begin in China and creep into Europe with Chinese laborers imported to dig trenches on both sides? Or did it begin in Haskell County, Kansas, among the hog farms and spread to nearby Camp Funston, packed with raw Army recruits from across the United States?

We know today that the Spanish influenza is an H1N1 influenza which invades the lungs and allows secondary pneumonia to develop. The virus caused illness in as little as 24 hours and could live on hard surfaces up to two days.

The flu probably reached Kalamazoo through workers recruited for construction jobs at Camp Custer. Special morning and evening runs for interurban cars transported workers to construction sites and nurses to the base hospital from Kalamazoo and Battle Creek.

Kalamazoo’s first influenza death may have been 8-year-old Otylia Makos on September 21, whose father was probably a worker at the camp.

Karl Kropf, age 44, died at the Kalamazoo State Hospital on September 29. He was the first of 33 patients at the State Hospital to succumb.

On October 17, the Red Cross opened an emergency hospital at the Stockbridge House on West South Street to treat influenza victims. Borgess, New Borgess, Bronson, and Fairmount Hospitals were all overwhelmed, with patients on cots in corridors. On the same day, the City Commission closed all gathering places, from restaurants and movie theaters to churches, schools, and billiard halls. Funerals were limited to ten persons, including family, undertaker, and the parson.

By Armistice Day, November 11, the flu was fading, and the ban was lifted. The tumultuous celebration of the Armistice, attended by 50,000 people on November 12, preceded a rise in new cases of influenza beginning four days later. The second round of cases did not wane again until after Christmas.



The flu may have reached Kalamazoo from workers recruited for construction jobs at Camp Custer.



New Borgess Hospital, 1917

Do you know

...if anyone in your family caught the Spanish flu or died from it here in Kalamazoo? If you have a story, please contact Sharon Ferraro at kazooflu1918@gmail.com



Climate Change and the Great Lakes

The topic of climate change is complex. We've heard about disappearing reefs in the oceans, melting arctic ice, extreme weather along the Gulf and Atlantic coasts, and wildfires in the West and recently in Appalachia. The Great Lakes are not often mentioned in popular discussions of climate change, yet the effects are already evident in all five lakes.

When the Museum's new science gallery opens this fall, paired with our Science On a Sphere, visitors will have a chance to be introduced to some of the issues of climate change in our region that don't usually make national news. Our lakes are already afflicted by a number of stressors not tied directly to climate change: invasive species, lost coastal habitat, and pollution such as fertilizer run-off from farms and home lawns, to name a few. Now we need to add to that list the threats from global warming.

Since Great Lakes temperatures have been increasing, ice coverage has decreased dramatically, allowing more evaporation and reduced water levels. Predictions are for very little ice coverage on Lake Superior by 2050. Because of the rapidity of the rise in air and water temperatures, lake trout and other cold-water species will disappear, unable to adapt quickly enough. On the other hand, invasives like zebra mussels thrive in warmer waters and will increase their population and spread farther north. Toxic algae blooms, such as the nationally-noted ones in Lake Erie, will become more widespread and commonplace.

Michigan's frost-free season has been extended by 9 days since 1958. While that might sound like a positive (who doesn't want a longer gardening season?), fewer days of frost results in higher populations of undesirable insects, including disease-bearing mosquitoes and ticks, or insects that attack crops.

Michigan residents are experiencing more frequent and intense storms. Overall precipitation has increased by more than 10% in the last 100 years, and scientists project that trend will continue. The problem is that the precipitation comes mainly during the already wet months, while summer months are experiencing periods of drought. Rain instead of snow, like fewer frost days, might seem like a good thing, but the snow cover serves its purpose too, as gardeners and winter recreationalists will tell you.

When it comes to climate change, scientists look at records from decades past and can see trends projected decades into the future. Computer models aid in understanding those trends, taking into account short-term variations. What could affect predictions are factors that might be within society's power to control, such as water and land management, and clean energy. The KVM's Innovation Gallery can serve as a catalyst for conversation, education, and, hopefully, positive action.

Since Great Lakes temperatures have been increasing, ice coverage has decreased dramatically, allowing more evaporation and reduced water levels.



Duck swimming in an algae bloom

There are a number of ways to discover more about climate change when you visit the KVM! Our Fall Sunday Science Series includes a talk about wind energy and what's happening in Kalamazoo to support and promote that renewable resource industry.

The Innovation Gallery, scheduled to open mid-October, will include information, graphics, and interactives that help visitors understand how we use and interact with land and how climate change is affecting our world, specifically the Great Lakes region. From glaciers to innovations in our food systems and energy production, several interactives will highlight land use and climate change. One very compelling activity will be the augmented reality sandbox, which uses 3-D visualization technology that shows topographic contour lines and simulates water – all manipulated by you, the visitor. Move the sand around, and see the landscape change! Hold your hand over the landscape for 5 seconds and make it rain on that area. Another interactive will focus on wind power. Learn how to optimize a windmill's output and discover that it's not all about speed!

If you haven't yet watched a presentation on our Science On a Sphere, be sure to check our website to find out when those will be available. Climate change will be a featured program using the SOS to illustrate how connected we in Kalamazoo really are to the oceans and far continents!

Be sure to check our website, too, for additional new science programs happening this fall – a bit of something for everyone!

This interactive allows visitors to experience near- or farsightedness (keep your glasses on!).



The Rhythm Machine provides open-ended exploration of musical composition!



Build and test a wind turbine.



Try performing endoscopic "surgery" while others watch.



Take the Food Innovation Quiz to learn about innovations in our food systems.



The Gift of the Glaciers shows the legacy of glaciers in the Great Lakes region.



BODY



LAND



MOBILITY



MUSIC

NEW SCIENCE OPPORTUNITIES AT THE KVM!

“Think like a proton – always positive!” is the best way to describe the many opportunities currently being pursued to promote science exploration at the Museum.

Four years in the making, the opening of the new Innovation Gallery, Innovation Lab, and ThinkTank, along with recent updates to the planetarium and the addition of the new Science On a Sphere exhibit, marks a significant update to the exploration and experience of the sciences.

This new exhibit and interactive space will include team-building activities as well as one-on-one dynamic, technology-rich exploration of four major areas: Body, Land, Mobility, and Music. There are more than 26 new interactive challenges for visitors, including the use of endoscopic manipulation, “game show” style food systems quizzes, racecar building, wind turbine construction, “dancing” MRI and X-ray images that follow your every move, climate simulator, music and augmented sound generator, and much more. The exhibit and programming space will open this fall, continuing to advance the Museum’s science offerings.

“The infusion of an innovation theme into the traditional science exhibit museum space reflects the growing importance and recognition of the creative spirit within scientific discoveries,” said Dr. Paige Eagan, Dean of Math, Sciences, and Health Careers at Kalamazoo Valley Community College.

“The new gallery space – exhibits and activities – provides a connection with scientific history and helps visitors question the future with innovation in mind.”

The new Innovation Gallery, Innovation Lab, and ThinkTank are fully committed to the idea of developing more accessible innovative, immersive, and hands-on experiences that are both engaging and fun. The new gallery will dedicate space for live participatory demonstrations to bring science “to life” and perhaps spark a new or renewed interest in the sciences by making them relatable and relevant for all visitors.

The Museum at its core is an educational institution that, through the many informal learning experiences offered, seeks to inspire and nurture the exploration of the interrelated subjects of Science, Technology, Engineering, and Math, commonly referred to as STEM, along with History, and Art. Why does science really matter? It’s about jobs. Careers in STEM are among the fastest growing fields in the nation. However, the United States is trailing behind the rest of the world when it comes to preparing students for success in these fields.

The new Innovation Gallery, Innovation Lab, and ThinkTank, along with all of the associated programming, will dynamically thread these subjects together. Come and explore the science that is all around us.

KALAMAZOO



*Bryce
Roberson*



*Charlie
Wicks*



*Greg
Hochman*



*Scott
Burnham*

INNOVATIONS ROCK THE WORLD!

Kalamazoo has a well-deserved reputation for its contributions to popular music, including rock and other genres. Most are familiar with Orville Gibson and his guitar factory, Heritage Guitars, and other luthiers. A less well-known story concerns a group of inventors and musicians on Kalamazoo Avenue near the train station who helped shape rock and roll music through the innovative works of Bryce Roberson, Charlie Wicks, Greg Hochman, Steve Kiraly, and Scott Burnham. In one way or another, this collection of musicians, inventors, and entrepreneurs eventually led to the founding of ProCo Sound.

Perhaps the best-known ProCo Sound innovation is the "RAT," a guitar effects pedal that was designed to augment and purposefully distort sounds played. The original RAT was developed in the company's basement in their Kalamazoo, Michigan, facility in 1978. During the 1980s, the RAT became very popular thanks, in part, to its use by a number of artists, including Jeff Beck, Kurt Cobain, Paul Reynolds of A Flock of Seagulls, Joe Walsh, and many others. Although the company is no longer based in Kalamazoo, numerous variations of the original RAT pedal are still being produced today. For more information, please visit Facebook's "Friends of ProCo Past" and join in on the conversation.



Steve
Kiraly

Visitors to the new Innovation Gallery opening this fall will get to try out the Kalamazoo-based ProCo Sound distortion pedal and two other guitar pedal effects to manipulate a selection of guitar sounds. The RAT, the Wah-Wah pedal, and a digital delay, as well as a vintage Kalamazoo amp prized for its natural distortion qualities, will all be on exhibit.

ProCo Sound's innovations will also be featured in a special display on the first floor of the Museum.



Sensory Experiences Are Expanding to **BETTER SERVE EVERYONE**

Changes are afoot at the KVM – some less obvious than others – yet we expect they will present a welcoming vibe for people of all abilities. The Kalamazoo Valley Museum has been working with local organizations to guide us in designing exhibits, programs, and experiences that improve access to our offerings. Students and instructors from Western Michigan University's Blindness and Low Vision Studies and the Center for Autism and Related Disorders are two such organizations.

If you've visited the Mystery of the Mummy exhibit recently, you've seen and likely touched the reproduction of ancient Egyptian reliefs. Those reproductions are accompanied by Braille labels explaining how they are related to the antiquities on exhibit but out of reach. Staff have been developing tours especially for blind/low vision patrons, and we continue to expand and refine those offerings, which often include non-visual sensory experiences.

For families with children on the autism spectrum, the Museum is developing special tours and setting aside spaces during certain times to allow for a more controlled environment in which to enjoy appropriate activities. Coping tools such as resistance bands, weighted and fidget toys, rocking saucers,

movement balls, and noise-cancelling headphones will be available to our visitors when needed while in the Museum. Many organizations, including museums, have developed social stories for families and groups to use when planning their visit. A social story is a step-by-step orientation that prepares visitors for what they will find when they come on their visit. It includes who they will meet, what exhibits will be like (sound, lighting, touchable and interactive exhibits) and details of what they can expect or will need to know throughout their visit. Other local groups, including Arcadia: Building a Community of Belonging and the WMU Kalamazoo Autism Center of Excellence, work with both families and organizations to increase accessibility and success.

What museums around the country are realizing is that by rethinking how we develop exhibits and programs in order to be more inclusive of people who learn best in nontraditional ways, all patrons benefit. Much of the research on learning styles shows that multiple approaches work best for most people. The KVM is noted for its hands-on exhibit elements and is therefore considered great for children. But the fact is, most adults also learn by using multiple senses: by touching, manipulating, seeing, and, yes, listening and reading!



Plan Your Visit: Accessory Items Available

- Visual map
- Spanish map
- Front drop-off area
- Wheelchairs
- Accessible restrooms
- Assisted listening devices in the planetarium and Theater
- Sign language interpreters (*call ahead*)
- Closed-caption videos
- Service animals welcome
- Noise-cancelling headphones
- Sensory processing coping tools
- Braille signs and relief reproductions in the Mystery of the Mummy exhibit
- Accessible seating
- Low lighting, quiet space during hands-on programs
- Museum is less busy after 3 p.m.
- Social story for planning your visit
- Food and drink allowed on the first floor

WHAT IS IT?



1 Made of clay, this object can be filled with something that might make your life a little bit brighter. What is it?



2 As fashionable as it is effective, this artifact would have been used during the afternoon in many late 19th-century British and American households. What is it?



3 This wooden object would have been found in many 19th-century homes and was used in the process of making a common household ingredient. What is it?

3. Butter working bowl. After the butter was churned, it was placed in this long, oval-shaped bowl. The butter was kneaded and worked until the liquid was removed. After salt was added to the worked butter, it was packed or pressed into tubs or molds.

2. Tea cozy. Placed over a teapot to help insulate and keep it warm, this decorative tea cozy with glass beads belonged to the denbycker family of Kalamazoo and was donated to the Museum in 1930.

1. Ancient Egyptian oil lamp. The central reservoir can be filled with oil (sometimes performed), and a wick pulled through the nozzle to hold a stabilized flame. This particular lamp is palm sized and likely designed to be portable.

SEPT
OCT
NOV
DEC

SPECIAL EXHIBITIONS

GUITAR: THE INSTRUMENT THAT ROCKED THE WORLD

SEP 30 – JAN 7, 2018

Visitors will have an entertaining, engaging, and hands-on experience with one of the most important cultural icons in history: the guitar. Learn about the science of sound, the evolution, engineering, and design of the guitar, and its cultural impact. This exhibition has it all: music, science, history, pop culture, video, education, interactives, and games.

HATEFUL THINGS

SEP 17 – JAN 14, 2018

Hateful Things is a traveling exhibit from the Jim Crow Museum of Racist Memorabilia at Ferris State University. This exhibit contains 39 items from the late 19th century to the present day. All of the pieces, as well as several images of violence, help to illustrate the effects of the Jim Crow laws against African Americans. The exhibit is meant to examine the history of racism as well as examine present day stereotyping, and to help promote racial healing.

All exhibits are **FREE!**

ALL NEW SCIENCE GALLERY OPENING THIS FALL!

Our new science gallery will feature innovations in science and technology. You'll still get to build a car and test its speed, but there's so much more! Build a windmill, use an augmented reality sandbox to change the landscape, design a boat and test its buoyancy – plus lots more to see, do, and learn!



See details and full schedule on our website.

HANDS-ON HAPPENINGS

Oct 14: Chemistry Day 12 – 4 p.m. FREE

Area chemists come together to explore our favorite chemistry experiments and rocks and minerals. This year's National Chemistry Week theme: "Chemistry Rocks!"

Oct 28: Make an Eerie Sound! 12 – 4 p.m. FREE

Create a variety of instruments that will send chills up your spine. Free Halloween-themed planetarium shows happen every half hour!

Nov 11: Share the Love 12 – 4 p.m. FREE

Follow the Holiday Parade back to the Museum and create gifts for friends and loved ones.

All Hands-On Programs are **FREE**
Visit our website for details.

HOLIDAY SPECIALS

Special Black Friday

Nov 24th-Only Planetarium Shows for Families \$3/person

Season of Light 11 a.m.

Let It Snow 1 p.m.

SpacePark 360 2 p.m.

Mystery of the Christmas Star 3 p.m.

Journey to Space 4 p.m.

Winter Break Performances

Dec 27 & 29, Jan 3 & 5, 12 p.m.

FREE in the Mary Jane Stryker Theater

Dec 27: Adam Mellema, stories

Dec 29: Joe Reily, music

Jan 3: Steve Barber, music

Jan 5: Jenifer Strauss, stories



Winter Break Planetarium Shows for Families

Weekdays Dec 26 – Jan 5 \$3/person

Season of Light 11 a.m.

Let It Snow 1 p.m.

SpacePark 360 2 p.m.

Mystery of the Christmas Star 3 p.m.

Journey to Space 4 p.m.

PLANETARIUM

*Closed for yearly maintenance September 11-15.

FEATURE SHOWS

Mon, Wed, Fri, Sat, Sun at 3 p.m.

The First Stargazers

Sep 16 – Nov 22

Travel to ancient sites to learn how early stargazers made predictions using the sky.

Mystery of the Christmas Star

Nov 24 – Jan 5

Discover a scientific explanation for the star the wise men followed to find the baby Jesus.

FAMILY SHOWS

Sat at 1 p.m.; Sun at 2 p.m.

Mon-Fri 11 a.m.

One World, One Sky

Sep 16 – Nov 22

Join Big Bird, Elmo and their Chinese friend Hu Hu Zhu as they explore the sky we all share.

Season of Light

Nov 24 – Jan 5

Find out how candles, Christmas trees, and Santa Claus became part of our holiday traditions.

SEASONAL STARGAZING SHOWS

Tue, Thu at 3 p.m.; Sat at 2 p.m.

Two Small Pieces of Glass Sep 16 – Nov 21

Learn how telescopes reveal our universe.

Orion Nights Nov 25 – Jan 4

Find stars within the constellations and discover their cycle of birth, aging, and death.

MUSIC LIGHT SHOWS

Saturdays at 4 p.m.

Led Zeppelin

(through Sep 9)

Led Zeppelin classics set to immersive and surrealistic computer-generated effects.

U2

Sep 16 – Nov 18

Experience classic U2 songs synchronized to immersive full-dome imagery.

Let It Snow

Nov 25 – Dec 30

This holiday-themed show features animations set to popular songs of the season. Great for all ages!

Sundays at 4 p.m.

Pink Floyd's Dark Side of the Moon

(through Sep 10)

Pink Floyd's progressive 8th album is put to stunning visuals that will send you to the moon.

Pink Floyd's The Wall

(early start! 3:45 p.m.) Sep 17 – Nov 19

The Wall is taken to a whole new level on the planetarium's dome!

Let It Snow

Nov 26 – Dec 31

All shows are \$3 per person

EARLY CHILDHOOD EXPLORATIONS

in the Burton Henry Upjohn

CHILDREN'S LANDSCAPE

**Check website for reopening later this fall.*

Monday-Friday 9 a.m. – 3 p.m.

Saturdays 9 a.m. – 5 p.m.

Sundays 1 – 5 p.m.

Children's Landscape is a self-directed hands-on exhibit for families and preschool groups. Designed for children under 5, it is filled with educational materials that support exploration, investigation, literacy, pretend play, social development, creative arts, math, and science.

Oct – Nov:

Let's Play Music

Dec – Jan:

Opposites

Circle Time Programs

Monday-Friday at 10 a.m. and Saturdays at 11 a.m.

These literacy-based 20-minute programs are free of charge to families and preschool groups.

No Circle Time during Winter Break, Dec 26 – Jan 5, but play hours extended until 5 p.m. each day.

EXTRAS

Demonstrations

Join KVM staff for LIVE weekly demonstrations on different science and history topics. Please call the front desk for our weekly offerings.

Museum Tours

Black History Tour

Kalamazoo Industry Tour

Program times may vary; please call the front desk for today's offerings.

Special Guest

Nov 18

10:30 a.m. FREE

Have coffee and donuts with Lecia Brooks, of the Southern Poverty Law Center as she discusses how they fight hate, teach tolerance and seek justice.

INNOVATION LAB

Dec 2:

Navigating the Holidays

11 a.m. FREE

In public and at home, how to make a safe, comfortable environment during busy times. The program will include a presentation for parents, lab activities for children, and a group tour through the Museum. Presented in collaboration with the Center for Autism and Related Disorders (C.A.R.D.).

SUNDAY SERIES

Mary Jane Stryker Theater

Second and Fourth Sundays feature speakers on topics of science, history, and culture. Programs begin at 1:30 p.m. and are FREE. Seating is limited. See detailed information online or pick up fliers at the KVM.

Sep 10:

INNOVATIONS THROUGH THE AGES: CELEBRATING ELDERHOOD ON THIS GRANDPARENTS' DAY

KVM staff will bring out interesting everyday artifacts from the past. Will you recognize them?

Sep 17:

DR. DAVID PILGRIM

The author of "Understanding Jim Crow: Using Racist Memorabilia to Teach Tolerance and Promote Social Justice" will offer a gallery talk for the opening of the Hateful Things exhibit. His book will be available for sale.

Oct 8:

SIZZLE, GLOW, AND ATTRACT!

Minerals do the strangest things! with Dr. Deborah Coates. Explore properties used to identify rocks and minerals. Some rocks and minerals effervesce, fluoresce, and are magnetic.

Oct 22:

WORLD SLAVERY: THE HAITIAN REVOLUTION AND THE RISE OF AMERICAN MUSIC

Discover the history of slavery from ancient times to its links with American society and into the early jazz age with special guest Ray Kamalay.

Nov 12:

WIND ENERGY WITH TOM SUTTON

Explore the history of wind power use as well as the more modern use of wind energy for electricity production.



Nov 26:

KALAMAZOO'S INFLUENZA EPIDEMIC OF 1918 WITH SHARON FERRARO

New research reveals how Kalamazoo fared during this national epidemic.

Dec 10:

SOUND WAVES AND WAVE PROPERTIES

Learn all about sound waves in this presentation by MSU Science Theatre – always a crowd-pleaser!

FRIDAY ART HOPS

Mary Jane Stryker Theater

The Museum is open until 9 p.m. on **Art Hop Fridays** year-round; *doors close at 8 p.m.** A variety of live entertainment, visual art, and music light shows are available for adult audiences each month. See detailed information online or pick up fliers at the KVM.

Visual Experiences open at 5 p.m. – FREE

Live Music Experiences begin at 6 p.m. – FREE

Music Light Shows begin at 6:30 and 8 p.m. – \$3

Sep 8:

Karen Frenchhall's "Journey In" (art)

Double-Strung (country, bluegrass, gospel, acoustic rock)

Oct 6:

Marcy Peake's "Please Understand" (photography)

Never Mine (old jazz tunes from the 1920s to more modern songs)

Nov 3:

Josh Gipson's "Precision Productions" (art)

Mechele Peters & 'Til the Cowboys Come Home (Americana old school)

Dec 1:

Denise Miller's "Reclaiming Humanness: An Historical Broadside Journey of Black Women as Reluctant Heroes 1781 – present" (art)

Kalamazoo Mandolin and Guitar Orchestra (holiday classics)

MUSIC LIGHT SHOWS IN THE PLANETARIUM:

Sep 8 – Jan 5

(See descriptions in PLANETARIUM column)

6:30 p.m.

Sep 8: Pink Floyd's Dark Side of the Moon

Oct 6 & Nov 3: Pink Floyd's The Wall

Dec 1 & Jan 5: Let It Snow

8 p.m.*

Sep 8: Led Zeppelin

Oct 6 & Nov 3: U2

Dec 1 & Jan 5: Let It Snow

**Doors to the Museum will close promptly at 8 p.m. Please arrive early to get your ticket and be admitted to the 8 p.m. show*

Recent Acquisition

WORLD WAR I COMFORT KIT AND MESS KIT SILVERWARE

When the United States entered World War I on April 6, 1917, Kalamazoo citizens were quick to take action to support the war effort. Prior to April of 1917, only 13 people in Kalamazoo County were members of the American Red Cross. A local Red Cross chapter was officially established April 9, 1917, when 120 people attended a public meeting at the Academy of Music. The constitution and by-laws for the Kalamazoo Red Cross chapter were adopted along with the election of officers.

Judge John W. Adams, temporary chairman of the organization, emphasized that members of the Kalamazoo Red Cross Chapter were not obligated to serve on the war front but rather act as moral support. The initial goal of the local chapter was to reach 2,500 members. There were various classes of memberships within the local Red Cross, and an individual could join for as little as \$1. By the end of the first membership drive in May 1917, the local chapter gained 7,000 members.

In June 1917, the National Red Cross tasked Kalamazoo County to raise \$75,000 toward the national War Fund Campaign goal of \$100,000,000. Citizens of Kalamazoo met the challenge, as \$20,000 was raised at a mass meeting on the first day of the campaign. The remaining \$55,000 was raised within two weeks.

While finance campaigns and membership drives were important pieces of the Red Cross, just as important were members aiding in war relief work at local workshops located in citizen's homes and businesses. The various departments included surgical dressings, knitting and garments, and hospital and refugee garment departments.

Comfort kits were some of the best-known items produced by the Red Cross. Sometimes referred to as "ditty bags," these kits were made of washable material and measured approximately 10 x 13 inches with draw strings at the top. Most contained a needle and



thread, paper, a pencil, soap, shaving soap, a small mirror, scissors, toothpaste, shoe laces, a pocket knife, safety pins, and sometimes tobacco.

Red Cross workers in Kalamazoo County and across the nation prepared to make one million kits for the soldiers at a cost of about \$2 each.

During the War, the National Red Cross Commissioner stated that every American soldier who entered the trenches carried a comfort kit packed by an American woman. From November 1917 to June 1919, hundreds of Kalamazoo Red Cross workers shipped 2,521 vests, property bags, and comfort kits.

This comfort kit contains a mirror, soap, and a shaving brush. It came to the Museum in 2015 by way of Robert Beystrom of Kalamazoo. The kit belonged to Robert's father, August Leonard Beystrom (1894-1977), who served with the American Expeditionary Forces in France from May 1918 through November 1919. August was born in Beattie, Kansas, but later moved to Michigan, eventually settling in Barry County. The Museum also received the silverware from his mess kit. These military-issue pieces are stamped with his initials, name, and the year and location where he served.

Ninety-nine years ago, a member of the Red Cross packed this kit, and August Beystrom had it with him while he served overseas. Now that this kit has been donated to the Museum, the kit and the legacy of Beystrom and the efforts of the Red Cross during World War I will be preserved for years to come.



World War I mess kit silverware

FRETBOARD FESTIVAL

is swinging into its 13th season

March 2 – 3

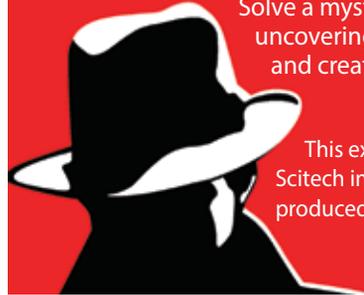


TOP SECRET
LICENCE TO SPY

January 28 – April 29

Explore the science and technology of the undercover world of spying and espionage using a James Bond-style fantasy of exotic locations and high-tech equipment.

Solve a mystery by breaking codes, uncovering microdots, using spy satellites, and creating elusive disguises!



This exhibit is designed and produced by Scitech in Perth, Western Australia, and produced by Imagine Exhibitions, Inc.

Golden Legacy:

Original Art from 75 Years of
Golden Books

January 27 – April 15



STORYTELLING

-2018-

FESTIVAL

KALAMAZOO VALLEY
MUSEUM

February 2 – 3

EXPAND YOUR HORIZONS VOLUNTEER AT THE MUSEUM!

Thinking about finding new ways to get involved in our community? Consider volunteering at the Kalamazoo Valley Museum! We are looking for a few individuals to help us make our museum inviting and exciting to all. Whether you are interested in science, history, arts and crafts, teaching, storytelling, or just like talking to people, the KVM has a place for you!

Volunteer and internship opportunities are available in the following areas of the Museum's operations:

Hands-On Programs – available to volunteers ages 14 and up

Historical Collections – available to volunteers ages 18 and up (inquire for openings)

Gallery Aides – available to volunteers ages 16 and up

Museum Internships – available to students ages 18 and up (currently accepting applications for the winter 2018 semester)

Please call 269-373-7990 or email museumstaff@kvcc.edu for further information.

2017-2018 WINTER BREAK

WINTER BREAK

DECEMBER 26 – JANUARY 5

Come to the Museum to enjoy a variety of programs for the whole family and extended Early Childhood Explorations hours in Children's Landscape.

Winter Break Performances:

FREE at 12 p.m.

Dec 27: Adam Mellema, stories

Dec 29: Joe Reily, music

Jan 3: Steve Barber, music

Jan 5: Jenifer Strauss, stories

Winter Break Planetarium Shows:

Weekdays Dec 26 – Jan 5 \$3/person

Season of Light 11 a.m.

Let It Snow 1 p.m.

Space Park 360 2 p.m.

Mystery of the Christmas Star 3 p.m.

Journey to Space 4 p.m.

See calendar listing inside for more planetarium show titles and times.



FREE GENERAL ADMISSION

Monday–Saturday 9 a.m.–5 p.m.

Art Hop Fridays 9 a.m.–8 p.m.

Sunday + Holidays 1 p.m.–5 p.m.

*Closed: Easter, Thanksgiving,
Christmas Eve, and Christmas*

Kalamazoo VALLEY™ Museum

230 North Rose Street
Kalamazoo, MI 49007

269.373.7990 | 800.772.3370

www.kalamazoomuseum.org

[/KalamazooValleyMuseum](https://www.facebook.com/KalamazooValleyMuseum)

[@kalamazoomuseum](https://twitter.com/kalamazoomuseum)

Accessible environment. Sign language interpreters may be scheduled with a minimum of two weeks' notice. Assisted listening devices are available in the planetarium and Theater.



The Kalamazoo Valley Museum is operated by Kalamazoo Valley Community College and is governed by its Board of Trustees

