

# ARTS & SCIENCES

from the museum of arts & sciences, in association with the smithsonian institution  
winter 2020

Enter the public and private  
worlds of Billie Holiday,  
through the poignant, beautiful  
photographs of Jerry Dantzic.

## BILLIE HOLIDAY

AT SUGAR HILL

PHOTOGRAPHS BY JERRY DANTZIC

January 25, 2020 – April 19, 2020

Museum of Arts & Sciences  
352 S. Nova Road, Daytona Beach, FL 32114  
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**BILLIE HOLIDAY AT SUGAR HILL: PHOTOGRAPHS BY JERRY DANTZIC**  
is an exhibition organized for travel by the Smithsonian Institution Traveling  
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# ARTS&SCIENCES

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Billie Holiday on stage at Sugar Hill, Newark, New Jersey, April 1957.

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This exhibition organized by the Smithsonian Institution Traveling Exhibition Service, in collaboration with the Jerry Dantzig Archives, offers a vivid and intimate photographic portrait of one of the 20th century's most iconic musical figures: the consummate jazz and blue singer Billie Holiday (1915-1959). Rarely seen photographs capture Holiday's life just two years before she died at the age of 44.

This exhibit can be seen at the  
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January 25, 2020 - April 19, 2020





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### DEAR FRIENDS,

As I write this, it is hard to believe we are already at the end of 2019 and moving into a new decade here at the Museum of Arts & Sciences. It had certainly been a busy year for the staff and trustees of MOAS, and we have had some major highlights to look back on!

Of course, the biggest news of the year was the incredible generosity of Lowell and Nancy Lohman with their donation to the MOAS endowment campaign that saw us naming the planetarium the Lowell and Nancy Lohman Family Planetarium in their honor. If you were at our wonderful Passport Gala this past September, then you will probably never forget the reaction in the room when I announced their gift from the auditorium stage. The standing ovation that Lowell, Nancy, and their family received was both long and fully deserved. The icing on the cake was of course, the Smithsonian Jazz Masterworks Orchestra Concert (SJMO) dedicating 'Fly Me to the Moon' to them to conclude their set – a fitting thank you to an amazing couple whose generosity is making our community a significantly better place to live.

Our sold-out Passport Gala was another highlight of 2019. The fundraising event had an amazing response, resulting in and evening of fun, friends, cocktails, great food, and of course, another superb performance by our friends from the SJMO. It is amazing to think that 2020 will be the 10th consecutive year that they have performed here, and they just seem to get better and better with every trip. I often joke with them that the core musicians who have appeared at every one of their shows in Daytona Beach are now the fifth longest serving employees of the Museum! We certainly enjoy having them in town, and with over 600 people attending their performances

this past year, we definitely have no plans to stop bringing them down from DC.

As sweet as these memories are, we have also had some difficult moments throughout 2019 as well. Sitting and waiting while Hurricane Dorian approached and threatened everyone throughout the state before stalling over the Bahamas and then staying just far enough off the coast for us to not see the worst of its wrath was one of them. Thankfully the Museum fared well with the winds and rain that we did get in Daytona Beach. Naturally, the one tree that fell in Tusawilla Preserve went right through the recently repaired boardwalk path, meaning that we had to close a small part of the boardwalk for safety. Fingers crossed we can get that tree taken out and the path repaired so that visitors can once again enjoy the nature walk in its entirety!

We also said goodbye to long-time MOAS volunteer and trustee, Tom Zane, who sadly passed away in June 2019. While it was sad to hear of his passing, it reminded all of us here of the wonderful times we spent together and the wisdom and enthusiasm that he and his wife Sena brought to the Museum. I was honored to be asked to fly out to Utah to represent the Museum at his funeral and was overwhelmed by the stories that I heard about Tom and Sena's love for MOAS and their time spent here. It was truly humbling to hear how we made such a positive difference in their lives.

It really has been quite a year here in Daytona Beach. I hope that you have enjoyed our programs and exhibits. It takes the effort of a fantastic group of staff and trustees to devise, produce, present, and raise the funds needed to do all that we do at MOAS. We hope we can make a positive impact in your lives and those of the wider community. I promise we are not stopping, and we will continue to refine and improve what we do to make MOAS an even more vital part of our community in 2020! Happy New Year!



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### ABOUT THE MUSEUM OF ARTS AND SCIENCES

The Museum of Arts and Sciences is a not-for-profit educational institution, chartered by the State of Florida in 1962 and accredited by the American Alliance of Museums. Museum collections and research include Cuban and Florida art, American fine and decorative arts, European fine and decorative arts, pre-Columbian and African artifacts, Pleistocene fossils, Florida history and regional natural history. Permanent and changing exhibitions, lectures, and classes highlight educational programs. The Museum houses changing arts and sciences exhibition galleries, permanent collection galleries, a gallery of American art, paintings, decorative arts and furniture, the Charles and Linda Williams Children's Museum, the Cici and Hyatt Brown Museum of Art, the Cuban Fine and Folk Art Museum, the Lowell and Nancy Lohman Family Planetarium, library, the Frischer Sculpture Garden, maintains nature trails in a 90-acre preserve in adjacent Tusawilla Park, and operates Gamble Place in Port Orange.

The Museum of Arts and Sciences is recognized by the State of Florida as a cultural institution and receives major funding from the State of Florida, Department of State, Division of Cultural Affairs and the Florida Council on Arts and Culture.

Major Museum programs and activities for members, school children and the general public are also supported by grants from the County of Volusia, the Guild of the Museum of Arts & Sciences, Elfyn Community Fund, and over 30 Major Sponsors from the community.

### MUSEUM HOURS:

10 a.m. – 5 p.m. Monday through Saturday  
11 a.m. – 5 p.m. Sunday

The Museum of Arts and Sciences is committed to the Americans with Disabilities Act by making our facility and programs accessible to all people. If you have any special requirements, suggestions, or recommendations, please contact our representative, Executive Director, Andrew Sandall, at 386.255.0285. If you prefer, you may contact the Cultural Council of Volusia County representative at 386.257.6000, or the Division of Cultural Affairs, The Capitol, Tallahassee 850.487.2980, or TT 850.488.5779.

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## CONGRATULATIONS *Randy Dye*

Congratulations to MOAS Trustee, Randy Dye, on receiving **Philanthropist of the Year** at the 2019 National Philanthropy Day celebration presented by the Volusia-Flagler Chapter of the Association of Fundraising Professionals on November 15, 2019.

Randy is an active member of the MOAS Board of Trustees as well as the Finance Committee. His commitment to the Museum ensures the longevity and success of MOAS. An example of great leadership, Randy has contributed personally to the current MOAS endowment campaign and has been a key component to raising over \$11 million towards the campaign, surpassing the initial goal of \$10 million.

Aside from his personal commitment to the Museum, Randy is an asset to our community as he is a major supporter to other local non-profits such as the Boys & Girls Club of Volusia and Flagler County, Childhood Cancer Foundation, and Volusia County School Fuel.

We are beyond grateful for Randy's positive impact and commitment to the Museum of Arts & Sciences. It is safe to say his positive influence is seen in many parts of the community.

## VOLUNTEER *of the Quarter*



### MARION WHELTON

Marion has volunteered as a Gallery Specialist at MOAS since 1987, shortly after she and her husband retired leaving the New England snow behind. It has been a pleasure for her to watch the Museum grow over the years. Even after 32 years, she continues to learn through the education and support provided by the MOAS curators and education team as well as many hours of self-study. It is difficult for her to name a favorite gallery as she finds unique and special objects in each gallery of the main museum as well as the Cici and Hyatt Brown Museum of Art. Marion has also contributed to the Museum by helping with special educational events, training new docents, and teaching hands-on classes. Her biggest joy comes from sharing her knowledge with MOAS visitors to help enhance their visit.

Art, history, travel, and antique collecting have always been a passion of hers. As a family, Marion, her husband, and twin daughters spent many hours in the pursuit of those interests. After retirement she and her husband traveled the world, visiting every continent, 60 countries, as well as all of the United States. Because of her interest in history she is a volunteer docent at the Halifax Historical Society museum. When she is not volunteering she is bird watching, gardening, looking for antiques and visiting her children and grandchildren in Texas and Virginia.

## MOAS ANNUAL DINNER *2019 Award Winners*



Pictured left to right: MOAS Volunteer, Bob Skinner, MOAS Trustee, Randy Dye, MOAS Trustee, Dr. Kent Sharples, and MOAS Executive Director, Andrew Sandall at the 2019 Annual Dinner on December 9, 2019.

**During the 2019 Annual Dinner the MOAS Board of Trustees recognized individuals who have made some of the most significant contributions to the Museum's efforts with the following awards:**

**The Marge Sigerson Volunteer of the Year Award** which is offered in recognition of exceptional volunteerism with the Museum of Arts & Sciences was presented to Bob Skinner.

Bob Skinner retired to Daytona Beach in 2008 after enjoying numerous vacations to the area. He began volunteering in the Museum Library in 2014 and became a docent at the Cici and Hyatt Brown Museum of Art in 2015. Prior to retirement, Bob spent 25 years with the Southern Methodist University in Dallas, Texas, first as head of their Music and Fine Arts Libraries, and then as a teacher and administrator.

Bob also worked at Harvard, the University of California at San Diego, and the University of North Texas. Bob's interests vary almost as much as the Florida weather, and currently include Egypt, genealogy, travel, and cooking. We are thankful that Bob has chosen to donate his time and talents to the Museum of Arts & Sciences.

**This year our Award of Distinction has been renamed in honor of the Root Family, a family whose association with the Museum and continued commitment to supporting its mission fits perfectly with the spirit of this award, which is offered in recognition of outstanding support and service to the Museum of Arts & Sciences. This year's Root Family Award of Distinction was presented to Randy Dye and Dr. Kent Sharples.**

When deciding who would receive this year's award, Randy and Kent were the two people who came to attention as they have made it their personal

priority to show leadership as trustees of the Museum and truly committed to working towards securing the future of the organization. They both have become among the most active members on our board and have acted as key strategists and participants in raising over \$15 million towards the MOAS Endowment, surpassing the announced goal of \$10 million in barely seven months. As an example of leadership, both Randy and Kent have made significant personal contributions to the endowment campaign, and have worked throughout the year to identify, cultivate, and make the crucial asks to potential endowment donors. Their work has been a vital part in allowing us to carry on working to meet the Museum's mission to inspire, cultivate curiosity, and promote lifelong learning in art, science, and history.





even more silent auction items, wine samples from S.R. Perrott, and more appetizers!

After mingling during cocktail hour, guests were escorted to the beautifully decorated West Wing where they enjoyed a delicious dinner. Entertainment for the evening featured a performance by the world-class Smithsonian Jazz Masterworks Orchestra in the Root Family Auditorium. An extra special addition to the evening was the announcement of the extremely generous donation by Lowell and Nancy Lohman for the naming of the planetarium, now known as the Lowell and Nancy Lohman Family Planetarium, and the amazing progress being made towards building the Museum's endowment.

This year's fundraiser was one of the most memorable to date with a sold-out crowd. We thank our sponsors and the community for the continued support and look forward to making more memories in the years to come.



## The 2019 Passport Gala fundraiser featuring Jazz from Broadway to Hollywood was one of the most memorable to date!

The Passport Gala, held on September 27, 2019, was the 9th annual fundraiser for the Museum of Arts & Sciences. This year's sold out prohibition-themed gala highlighted jazz music from Broadway to Hollywood.

The event was held for the second year at the Museum. The evening kicked-off in the Root Family Museum Train Station. Guests arrived via a red carpet entrance and enjoyed browsing through the start of an expansive silent auction. Photo opportunities in front of the Hiawatha train car and delicious appetizers greeted everyone as they made their way into the Root Family Museum for cocktails,

### A Special Thank You to This Year's Passport Gala Sponsors

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Billie Holiday on stage at Sugar Hill, Newark, New Jersey, April, 1957.

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EXHIBITION SPOTLIGHT

# BILLIE HOLIDAY

AT SUGAR HILL  
PHOTOGRAPHS BY JERRY DANTZIC

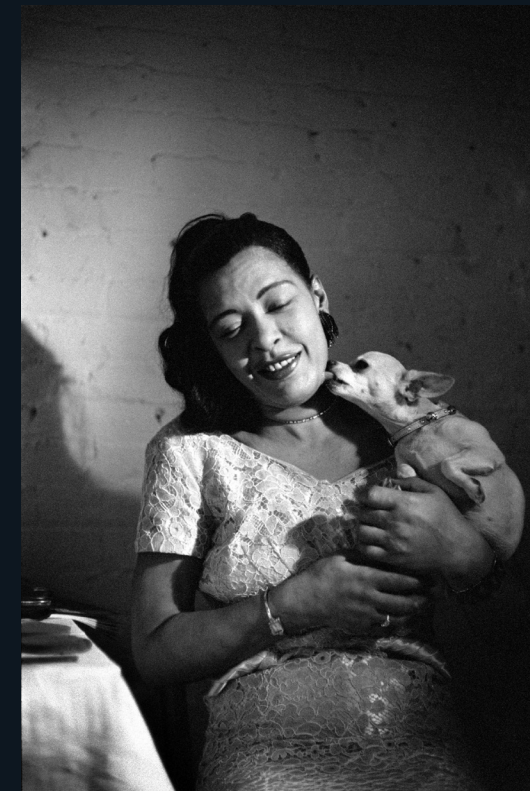


As a proud Smithsonian Institution Affiliate, MOAS is pleased to offer one of its latest traveling exhibitions – **Billie Holiday at Sugar Hill: Photographs by Jerry Dantzig** – as part of its exhibition schedule this winter. Opening January 25 and running through April 19, this exhibition shows the enigmatic, private singer up close and personal as never seen before in the two years before her death in 1959. Sixty years later, she still fascinates and the 56 photos in the exhibition – many printed large format – recall not only the heyday of mid-20th century American jazz and blues, but the real life of one of its most famous figures. A video of one of her 1957 performances is included in the exhibition and the book with 100 of the photos taken by Jerry Dantzig at Sugar Hill accompanies the exhibition.

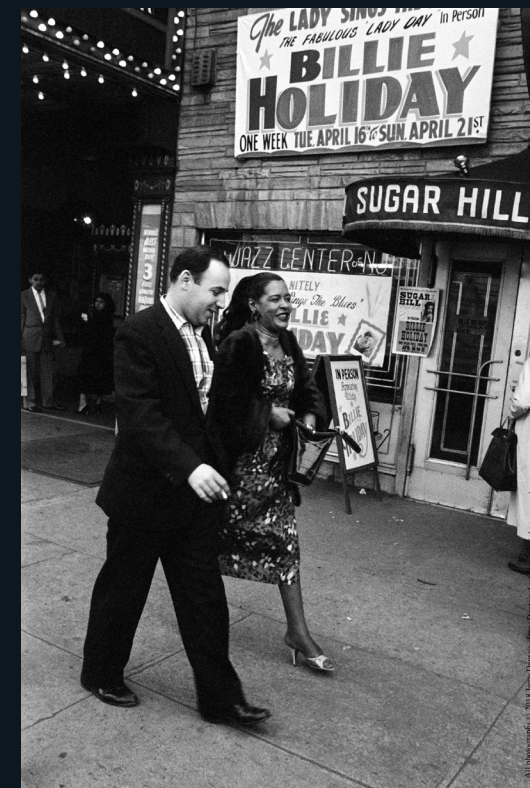
Eleanora Fagan (1915-1959), better known as Billie Holiday, was an American jazz singer with a career spanning nearly thirty years. Nicknamed “Lady Day” by her friend and music partner Lester Young, Holiday had a seminal influence on jazz music and pop singing. Her vocal style, strongly inspired by jazz instrumentalists, pioneered a new way of manipulating phrasing and tempo. She was known for her vocal delivery and improvisational skills, which made up for her limited range and lack of formal music education.

Duke Ellington called Billie Holiday “the essence of cool,” a reference to her equipoise in performance. One of the most influential jazz vocalists of all time, Holiday had a controlled emotional power that transformed even trite ballads into romantic short stories. She performed with Count Basie in 1937 and became one of the first African American vocalists to headline an all-white band when she joined Artie Shaw’s Orchestra in 1938. A year later, Holiday introduced “Strange Fruit,” the haunting indictment of southern lynching that would become one of her most iconic songs. Her final album, *Lady in Satin*, was released in 1958. Holiday died on July 17, 1959. A posthumous album, *Last Recording*, was released following her death.

**Billie Holiday at Sugar Hill: Photographs by Jerry Dantzig** is a vivid, intimate, compelling photographic portrait of Billie Holiday, the consummate jazz and blues singer and one of 20th-century music’s most iconic figures, in April 1957 at a significant moment in her life just two years before her death at the age of 44. The previous year her autobiography *Lady Sings the Blues* had been published, she had performed a sold-out concert at Carnegie hall, and she had just married in March. Now she was starting a week-long engagement at Sugar Hill, a club in Newark, New Jersey. Freelance photojournalist Jerry Dantzig had an assignment from Decca Records to photograph her and the Sugar Hill gig was the perfect occasion. He also happened to know William Dufty, the co-author of her autobiography, who introduced him into Billie’s private world.



Billie Holiday and her pet Chihuahua, Pepi backstage at Sugar Hill, Newark, New Jersey, April 18, 1957.



Billie Holiday with Bernie Weissman, owner and manager of Sugar Hill on Broad Street, Newark, New Jersey, April, 1957.



Dantzie's images offer an unparalleled view of Billie Holiday in private as well as in public, performing and the transitions in between. Though the wear and tear of a life of hardship, racism, drugs and drinking, and abusive men is revealed, we also see her warmth and tenderness, her rich humanity. We catch glimpses of her strolling Broad Street in Newark, encountering fans, with her new husband, Louis Mckay; we see her at

home with William and Maely Dufty and their son Bevan, her godchild, and while having a drink or doing her makeup, as well as cuddling her pet Chihuahua. The years and the struggles seem to vanish when she sings. However much she was "hurt and hurting," in Nat Hentoff's phrase, she becomes angelic. Dantzie would also photograph her later that year at the 2nd New York Jazz Festival at Randall's Island.



Billie Holiday embraces a fan on Broad Street after receiving a gift; Carl Drinkard is behind her flicking his cigarette into a trashcan, Newark, New Jersey, April, 1957.



Billie Holiday holding her pet Chihuahua, Pepi, in front of Sugar Hill, Newark, New Jersey, April 18, 1957.

**"You give it all away, it streams from you, like rivers rolling to sea: love, music, money, smokes. What you got, everybody wants - and most days you let 'em have it. Sometimes it's as much as you can do to keep a hold of your mink."**

From "Crazy they Call Me: On Looking at Jerry Dantzie's Photos of Billie Holiday" by Zadie Smith in the Billie Holiday at Sugar Hill: Photographs by Jerry Dantzie, Thames & Hudson, 2017.

January 25, 2020 — April 19, 2020

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Completely at ease with Dantzie in this rare, sustained encounter, Billie Holiday shows herself in a variety of moods and expressions, and allows the viewer, as it were, to walk with her part of the way. It is a deeply poignant portrait. Only a handful of the photographs included here have ever been published.





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# SUSTAINABILITY IN MUSEUMS

BY MOAS EDUCATION COORDINATOR, KELSEY HANSEN

Sustainability projects in museums and similar institutions begin with taking a look at the United Nations Sustainable Development Goals (UN SDG). These 17 goals were adopted in 2015 to “provide a shared blueprint for peace and prosperity for people and the planet, now and into the future.” The goals range from industry, innovation, and infrastructure to affordable and clean energy to quality education. Museums, and other organizations, are starting to look critically at how they can incorporate these goals into their daily operations, building plans, and presentations, as well as educating the public to provide for a more sustainable future.



The United Nations Sustainable Development Goals, a blueprint to achieve a better and more sustainable future for all. Image Credit: UN.org

Sustainability initiatives in museums are not one size fits all. Each museum (which can include aquariums, botanical gardens, nature preserves, and other cultural institutions) is unique, and requires different sustainable principles and practices to be applied to the site. Whether the institution is focusing on the sustainable development goal of gender equality, educating the public on climate change, or updating their institution to run more efficiently and green, each one must take a specific approach that best suits their ideals and needs. These changes within an organization can

cause a shift in sustainable values within the staff, stakeholders, and the public, as they begin to understand the benefits not only socially and economically, but also environmentally.

The Museum of Arts & Sciences is taking small steps to move towards a more sustainable future. I recently attended the Sustainability Fellowship program in Phoenix, AZ, supported by the Rob and Melani Walton Sustainability in Science and Technology Museums initiative where I dove into discussions with other fellows and professionals

on how these initiatives were implemented. Examples of case studies included museums focusing on installing pollinator and butterfly gardens with corresponding teaching tools, the design of professional development for co-workers and staff to incorporate green tools into everyday operations, and the planning of long-term projects focusing on energy efficiency and water conservation for pre-existing buildings.

We also discussed obstacles that could arise during the implementation of sustainable practices and principles. The term “sustainable” is a very broad term that can lose its value if misused or overutilized; therefore, defining its purpose specific to the institution with examples, and presenting it to the public, staff, and stakeholders is extremely important. Another obstacle discussed was the amount of goals set forth by the UN SDG; since there are 17 SDG goals some professionals can get overwhelmed at choosing one or two



A group photo of those who participated in the Sustainability Fellowship in Phoenix, AZ

goals to focus on. It is really important to start small when designing your sustainability initiatives for an institution, and that was one of the biggest takeaways from the program.

By receiving the Sustainability Fellowship, I will be designing a sustainability project for MOAS. I am very excited to design and implement any project that will benefit the long-term planning of

the Museum. Not only will the Museum benefit through sustainable development projects, but it will also provide us with the opportunity to be a leader in the community when it comes to incorporating the SDG's into our daily operations, buildings, and educational programs. So check back in about four months to see how the project is coming and feel free to ask any questions regarding sustainability and the SDG's!



## A SOCIAL STORY OF MOAS

By MOAS Education Associate, Nicole Messervy

This past September I had the opportunity to attend the Florida Association of Museums (FAM) Conference in Orlando, Florida. One of my favorite sessions was about learning how to engage audiences with disabilities and creating a more accessible museum experience for everyone. One of the ideas presented in the session pertained to creating a packet that would be accessible online to guests with special needs that would help them better plan their visit. As one of the Museum educators I have the opportunity to work with special needs groups when they visit us for field trips. I decided to not only create a packet for regular museum visits, but also a packet designed specifically for field trips.



Through a first-person narrative and photos, guests can learn what to expect when visiting the Museum for the first time. The packet will walk them through the moment they arrive, to the moment they leave. It will explain what galleries to avoid if they are sensitive to loud sounds, what days/times are typically the quietest, what to expect when visiting the Lohman Planetarium for the first time, and more. The Museum of Arts & Sciences continues to work hard towards creating a more accessible experience for our guests with special needs. My hope for this project is for our guests with special needs to always feel welcome and enjoy their visit to the Museum of Arts & Sciences.



# ICE AGE EXTINCTIONS

## What Happened?

**What is an extinction event?** Most people do not realize that paleontologists and scientists have created certain criteria for extinction events. These events are characterized by a sharp change in the abundance of multicellular organisms and a widespread decrease in the Earth's biodiversity. Most of the diversity and biomass on Earth is microbial and difficult to measure so these events are limited to easily observable biologically complex components of the biosphere.

Scientists have established three criteria for a major extinction event. The first is that the event must be worldwide. Animals must be affected over the entire globe not just regionally. Second, an extinction event must happen very quickly in a short geologic time scale. Finally, one-third of all existing species must disappear. What is remarkable is that after these catastrophic events new life, new species, and new ecosystems emerge to fill the void very quickly.

There have been five major such extinction events referred to as the "Big Five." The first extinction event goes back 444 million years ago to the Paleozoic era. The second was the Ordovician where 86% of all life on Earth was eliminated. This was followed by the Devonian extinction event 375 million years ago where 75% of life went extinct. The biggest extinction event was the devastating End-Permian extinction event 251 million years ago where 96% of all species disappeared. The fifth, and most famous, extinction event is the catastrophe that wiped out the dinosaurs called the End-Cretaceous event. Over the years it has gained a lot of notoriety and publicity due to what scientists have called "the smoking gun." A large asteroid hit the Earth 65 million years ago near the Yucatan Peninsula in Mexico. This created a global meltdown of plant life and ecosystems which ended the long 250-million-year reign of the dinosaurs. This began the "Age of Mammals" with many new mammalian life forms filling the major ecosystems and quickly diversifying into many new types.

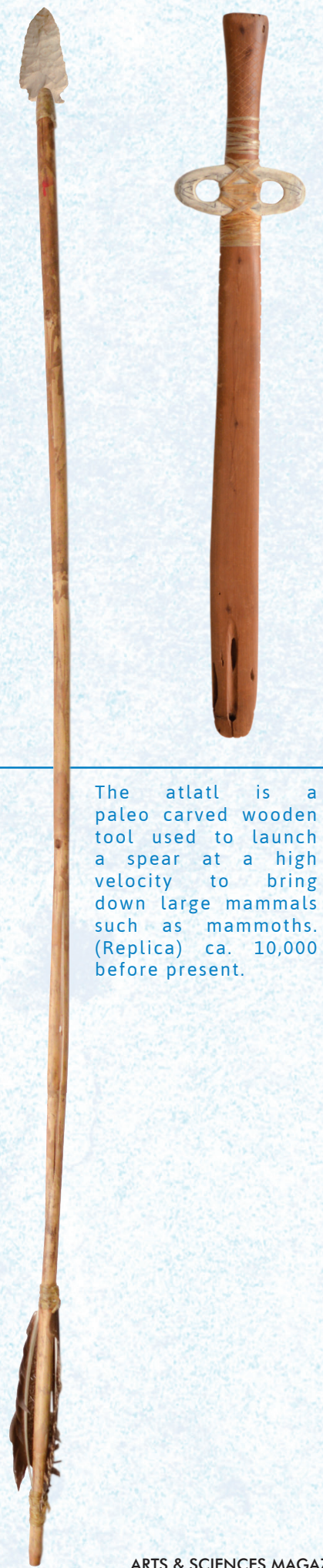
Fast forward to 13,000 years ago and what are the theories that explain why the ice age animals went extinct? What was different during the Pleistocene Epoch when giant sloths, giant armadillos, and huge cave bears dominated places like Florida? Most of the animals that perished at the end of the last ice age were called the megafauna or animals over 100 pounds. Huge multi-ton animals like mastodons and mammoths disappeared along with apex predators like saber-toothed tigers and dire wolves. Most of these ice age animals had endured at least 12 previous ice ages and did not go extinct. Why was this one different? Scientists have grappled with this question for over 150 years. Scientists have developed four scientific theories to address this conundrum.

The first theory, championed by Geoscientist Dr. Paul Martin at the University of Arizona, is called the Blitzkrieg or overkill hypothesis. Dr. Martin posits this disappearance of the megafauna was due to a new devastating apex predator that could problem solve, throw objects like spears, and make weapons. Obviously, he is referring to humans. Wherever humans came into new lands, corresponding extinction of large land animals occurred shortly afterward.

In North America, a group of humans called the Clovis people arrived about 12,000 years ago. These prehistoric people received their name after the large spear points they made which were first discovered in Clovis, New Mexico. They used these large blades in conjunction with a unique tool called the atlatl. This tool enabled them to catapult a spear at high velocity and over a long distance to bring down slow-moving mammoths and other megafauna. In a short time span, these animals were hunted to extinction. This created a domino effect as the other carnivores that hunted them fell by the wayside. Eventually, a new equilibrium was established in the ecosystem.

In a short 1,000-year span, the Clovis people spread from Alaska to the tip of South America. For unknown reasons, they disappeared, and scientists theorize they became the major aboriginal tribes of North and South America. The Museum has

The atlatl is a paleo carved wooden tool used to launch a spear at a high velocity to bring down large mammals such as mammoths. (Replica) ca. 10,000 before present.





work. In a case within the Prehistory of Florida Gallery at MOAS sits the skull of a Florida bison. If you look closely, you can observe what appears to be a small rock sticking out from the top of the skull. This is no rock, but a broken piece of the spear point that delivered the deathblow to the animal. The skull was found in the muck of the Aucilla River in North Florida. It is carbon dated at 12,000 years old – the right time for the Clovis people in Florida. This proves that these ancient people were hunting large megafauna.

Other “kill sites” have been found at Silver and Wakulla Springs, and other sites throughout the continent. Even the Daytona Mastodon excavated in 2011 by museum staff has rib bones with what appear to be butcher marks. These bones were sent to experts at the University of Indiana and China but came back as undetermined.

Populations of big animals seemed to radically decrease everywhere when humans first appear in their ecosystem. Around 3,500 years ago in Cuba, a smaller species of giant ground sloth went extinct, and 46,000 years ago, in Australia, large animals like the giant kangaroo became extinct when humans arrived. It is the same story in Europe, Madagascar, and New Guinea. What about Africa? The large animals there seemed to have survived just fine. Scientists who prescribe to the “overkill” theory suggest this may be explained by the fact humans and large animals coevolved and existed together for a long time. The large megafauna animals on the continent avoided the dangers of these bipedal predators. When humans crossed over land bridges to new continents and islands, existing animals had no clue to be wary. Many large animals like elephants and mammoths have slow reproduction rates making it difficult to keep the birth rate higher than the death rate therefore compounding the problem.

The next theory that some scientists believe is that at the end of the last ice age a dramatic climate change wiped out many large animals that could not adapt fast enough. Again, the puzzling piece is the previous ice ages seem to have little effect on megafauna. What was so different at the end of the last ice age to wipe out these magnificent beasts?

When the climate changed at the end of the last ice age, warmer temperatures raised sea levels; this especially affected Florida. The coastline was no longer 50 miles further east from Daytona or 150 miles further west from St. Petersburg than it is today. Many scientists believe that the climate changed quickly and the grasses changed as well. Research from the

University of Copenhagen suggested that at the end of the last ice age a change in the grasses resulted in their decline. These grasses changed from what was called C-3 to C-4 grasses, which contain more silica and were far less nutritious. Thus, the animals were not getting the right type of food. This environmental change in vegetation led to their downfall.

Another environmental effect at the end of the last ice age was the retreat of the ice sheet. The large ice sheet that blanketed North America and Europe kept the seasons dampened, but as it retreated, it caused sharply defined seasons of winter and summer. This caused the animals to move to new ecological zones and adapt. New plants and terrain caused by sharp seasons in


summer and winter created a new balance in the ecosystem. If you could not adapt, you died off.

The next theory is that a hyper disease spread swept through the megafauna. Perhaps, early human aboriginals moving into new lands carried a disease. It has happened many times before where a disease jumps from one species to another. Cases of swine and bird flu are modern examples of this effect. What if humans or the wild dogs that followed them carried a virus in their gut which affected large mammal populations. Unfortunately, there is not much direct evidence to support the claims of the small number of scientists who are working on this theory.

This bison skull dating back 12,000 years was discovered in the Aucilla River east of Tallahassee by a University of Florida paleontological team in the mid-1990s.


The final theory, which was just released in the fall of 2019, suggested a visitor from outer space wiped out the large mammals of the world. Researchers have just published evidence suggesting that asteroids impacted near Elgin, South Carolina, and Greenland about 13,000 years ago. Researchers at the University of South Carolina have detected above-normal amounts of iridium and platinum, which could only have come from such an impact. This could cause a mini ice age, which today is called the Younger Dryas event, which was a temporary return to ice age conditions 13,000 years to 11,700 years ago. This was an aberration in the general warming trends of the period.

Although the last ice age was not a major extinction event, roughly 35 different types of large mammals went extinct. Did humans cause the extinction or perhaps a combination of environmental changes and hunting working together rubbed out the ice age mammals? One of the problems is that the evidence paleontologist and scientists collect is rarely complete. Whatever the reason or reasons, large animals were unable to adapt to whatever changes happened at the end of the Pleistocene Epoch. Scientists just cannot seem to put a “bullseye” on any single event causing this mini extinction event.



# JANUARY 31, 2020

## 6:00 to 9:00 p.m.




A UNIQUE AND FAST-PACED SHOWCASE FEATURING A HIGHLY ENTERTAINING LINE UP OF THE BEST IN SHORT FILM COMEDY, DRAMA, AND OUTSTANDING ANIMATION.

Museum doors open at 6:00pm for a reception with light passed hors d'oeuvres and a cash bar.  
Auditorium doors open at 6:45pm for open seating.  
Recommended for ages 16 and older.  
\$20.00 for MOAS members, \$25.00 for future members.

**FOR MORE INFORMATION OR TO PURCHASE TICKETS, VISIT [MOAS.ORG](http://MOAS.ORG) OR CALL THE MUSEUM AT 386.255.0285**

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**Sunday, April 19, 2020** Rain Date: May 3, 2020

**6:30pm Park Opens**

**8:00pm Concert**

**1500 Central Avenue (Town Center)**

**Deanna Tham**  
Jacksonville Symphony Assistant Conductor & JSYO Principal Conductor, Winston Family Endowed Chair

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Source: FDA CDRL Safety Assessment of Di(2-ethylhexyl) Phthalate (DEHP) Released from PVC Medical Devices. FDA CDRL 1-118,2003.

**MOVIE NIGHT**

**IN THE LOHMAN PLANETARIUM**

**Saturday, January 18**  
**6:30pm-9:30pm**

Freddie Mercury's biopic: *Bohemian Rhapsody* follows his rise from an awkward, aspiring musician, to the front man of the biggest band in the world, to rock legend. Following the movie, continue rocking out to our new Laser Queen show!

Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285.

*\$8.00 for members, \$10.00 for future members*

Movies presented in rectangular 16:9 aspect ratio on the planetarium dome in stunning 4K Ultra High Definition, with surround sound, this will surely be a unique viewing experience. Popcorn and snacks will be available at the concession stand. Please arrive at least 15 minutes before the event start time.

**MOA/AS**  
MUSEUM OF ARTS & SCIENCES

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**Happy Holidays**

From our News-Journal family to yours!

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# WINTER EXHIBITS



## VISIONS OF THE FUTURE ONGOING THROUGH 2020 – LOHMAN PLANETARIUM LOBBY

This colorful, creative poster series from NASA's Jet Propulsion Laboratory, now on display in the Planetarium Lobby, imagines possible future travel destinations to real exotic locations in space. The retro-style artwork takes inspiration from travel advertisements of the past and combines them with intriguing objects within our Solar System and far-off exoplanets. *Image Credit: Trappist-1e, NASA*



## FANTASTIC! DECORATIVE FANS FROM A PRIVATE COLLECTION THROUGH JANUARY 12, 2020 – BOUCHELLE CHANGING GALLERY

A collection of over 50 fans from the 18th to the early 20th centuries including mourning fans, hand colored lithographs, hand painted feather fans, lace fans, exotic fans, and advertising fans constructed from a variety of materials including ivory, bone, wood, leather, mother of pearl, tortoiseshell, celluloid, coconut fiber, silk, sequins, and spangles. Ladies in centuries past rarely were without a hand fan to cool themselves in the summer heat and these popular items often were decorated with small paintings and other adornment so that they reflect the artistic tastes of their area. *Image Credit: Lady's Fan, 19th century, silk with sequin and watercolor decoration*



## POP ART/OP ART FROM THE MOAS COLLECTION THROUGH JANUARY 19, 2020 – KARSHAN CENTER OF GRAPHIC ART

With some of the biggest names in mid-twentieth century Modernism represented, this exhibition highlights the Pop Art and Op Art movements so popular in the U.S. and around the world in the 1960s, 70s and 80s. Works by Warhol, Rauschenberg, Indiana, Oldenburg, and Rosenquist join many other of their contemporaries to highlight this vibrant, fun, and colorful period in Western art where everything from Campbell soup cans to rusted metal to optical illusions made with linear abstraction were all the rage in the art world. *Image Credit: James Rosenquist, American, 1933-2017, Short Ends, 1970, Lithograph. Gift of Jack Mitchell and Robert Pavlik*



## FRAGILE BEAUTY: MASTERWORKS OF PORCELAIN AND GLASS FROM THE COLLECTION OPENING JANUARY 18 – OCTOBER 3, 2020 – BOUCHELLE CHANGING GALLERY

Highlighting centuries of fine workmanship in porcelain and glass, this exhibition brings together some of the most beautiful pieces in these media to be found in the MOAS collection. Decorative Arts are particularly well-represented in the Museum's collection and visitors will be impressed by the wealth of intricate detail and stunning craftsmanship displayed by these fragile, sculptural pieces. With references to artistic tastes of the past, they represent traditions in porcelain and glass that have long since given way to primarily streamlined Modernism. *Image Credit: Meissen Porcelain Factory, Apollo and Chariot of the Sun, 1820, molded, hard paste porcelain with polychrome glazes. Gift of Dorothy and John Fellenz 86.08.001*

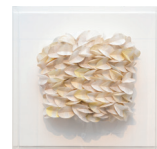


## BILLIE HOLIDAY AT SUGAR HILL: PHOTOGRAPHS BY JERRY DANTZIC OPENING JANUARY 25 – APRIL 19, 2020 – KARSHAN CENTER OF GRAPHIC ART

This exhibition organized by the Smithsonian Institution Traveling Exhibition Service, in collaboration with the Jerry Dantzic Archives, offers a vivid and intimate photographic portrait of one of the 20th century's most iconic musical figures: the consummate jazz and blues singer Billie Holiday (1915-1959). Rarely seen photographs capture Holiday's life just two years before she died at the age of 44.

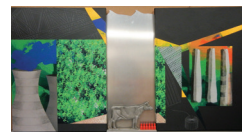
In April 1957, renowned photojournalist Jerry Dantzic gained special access to Holiday during a week-long run of performances at the Newark, New Jersey nightclub, Sugar Hill. We see her joy greeting fans on the street, life at home with friends and family, her preparations backstage, and her captivating charm at the microphone. The images capture her warmth, humanity, complexity, elegance, and star power. Dantzic's images offer an unparalleled look at an American icon, one that goes beyond the tragic narrative that frequently defines her. Sixty years after her death, Billie Holiday's passion and originality come through in every song she sang - and are forever captured in these rare, spectacular photos.

*All photographs © 2018 Jerry Dantzic / Jerry Dantzic Archives. All rights reserved. Image Credit: Billie Holiday on stage at Sugar Hill, Newark, New Jersey, April, 1957.*



## PAINTING WITH PAPER: THE ART OF AKIKO SUGIYAMA THROUGH FEBRUARY 2, 2020 – GARY R. LIBBY ENTRY COURT

An exhibit of work by Akiko Sugiyama who creates her pieces by folding, rolling, twisting, cutting, painting, texturizing, sewing, wrapping, and spinning a range of papers, often incorporating those forms with found objects, such as branches and other materials. While her process is intricate, the finished pieces often possess a profound simplicity with references to the natural world. *Image Credit: Akiko Sugiyama, Untitled, 2018, seed pod, hand-dyed, rolled and stitched Japanese paper*



## SINGULAR ANGLES: THE ART OF ROBERT HUFF OPENING FEBRUARY 8 – APRIL 26, 2020 – GARY R. LIBBY ENTRY COURT

Robert Huff (1945-2014) was a fixture in the late 20th century Miami art scene and he influenced generations of South Florida artists long before ArtBasel Miami Beach transformed the area into an art mecca. He lived, worked, and taught in South Florida for 46 years and his color palette evolved over the years to include the blues, oranges, and yellows of the tropics to the reds and blues, along with gold leaf, that he introduced into his work after a profoundly affecting trip to Russia. Able to envision on a grand scale, he had major public works commissions around Miami, including three at airports. His distinct brand of tropical urbanism came to signify the rapid transformation of South Florida and still seems fresh and relevant to the spirit of the area to this day. *Image Credit: Robert Huff (1945-2014), You Can't Go Home Again, 2006, acrylic, pencil, canvas, aluminum, ceramic. Courtesy of Barbara Young*



## ARTS AND CULTURE OF MICRONESIA THROUGH FEBRUARY 16, 2020 – FORD GALLERY

An exhibit showcasing many cultural and artistic relics from Micronesia. Arts and Culture of Micronesia will feature many diverse objects and traditional crafts from the personal collection of Barbara Wavell. A hand-crafted outrigger canoe, traditional baskets and bowls, storyboards depicting ancient tales, and numerous objects unique to these tiny islands will be on display from December through late February. *Image Credit: Carved board from 1951 in Airai Palau, carved by Baules.*



## THE WORLD OF FRIDA FEBRUARY 22 – APRIL 26, 2020 – FORD GALLERY

Coming to MOAS from the Bedford Gallery in California, this exhibition celebrates the culture, style, and persona of visionary painter Frida Kahlo, an artist who continues to inspire with her story of love, adventure, and pain. With over 100 works in all types of media by contemporary artists in the exhibition and record-breaking attendance during its first showing, the legacy of this iconic artist is still strong a century after her life and career. *The World of Frida was organized by Carrie Lederer, Curator of Exhibitions, Bedford Gallery, Leshar Center for the Arts, Walnut Creek, CA. Image Credit: Carlos Vilez, Parakata Poderosa, 2016, giclee on canvas, 30" x 24"*



## VOLUSIA WILDERNESS CAPTURED: FLORIDA PAINTINGS BY SANDRA LLOYD THROUGH JANUARY 12, 2020

An exhibit featuring over 50 paintings that span the career of noted local painter Sandra DeArmas Lloyd. The works capture the beauty of the Volusia County wilderness in both watercolor and oil paint. Realistic images of the swamps and waterways suggest the majesty of the untouched, primal Florida forests. *Featured painting: Sandra Lloyd, View of Haw Creek, watercolor*



## "THE LATEST NEWS FROM FLORIDA": WOOD ENGRAVINGS FROM 19TH CENTURY PERIODICALS A. WORLEY BROWN & FAMILY GALLERY

Wood engravings from 19th century illustrated magazines and journals documenting events in the remote land of Florida - a state that few northerners knew a lot about or would ever visit. The works in this exhibit are grouped into three sections - "life", "industry", and "war". "Life" includes depictions of daily activities and amusements. "Industry" includes depictions of processes such as citrus growing and harvesting and preparing Spanish moss for commercial purposes. "War" includes depictions of the armaments, military activities, fortification structures, and naval events. These topics proved to be of interest to those who bought these publications. *Featured Painting: Harper's Weekly, Ft. Pickens 1861*



## GONE FISHIN' SENA H. AND THOMAS L. ZANE GALLERY

This exhibition emphasizes Florida's reputation for being one of the greatest sport fishing areas in the world. From locals with simple cane poles to celebrities on yachts decked out for challenging sailfish and tarpon. *Featured painting: Sam Stoltz, Strife of the Sea*



## AROUND THE BEND: PLEIN AIR PAINTINGS FROM THE COLLECTION OF KEVIN MILLER AND HAL STRINGER THROUGH FEBRUARY 23, 2020 – ROOT HALL

An exhibit that brings together some of the best Florida painters working in the tradition of Plein Air painting today, highlighting the depth of the collection of Kevin Miller and Hal Stringer, strong proponents of plein air painting in the Sunshine state. *Image Credit: Stephen Bach, East Washington Street Park, Oil on Canvas*



## SELECTIONS FROM THE MOAS CONTEMPORARY COLLECTION ONGOING STARTING MARCH 1, 2020 – ROOT HALL

Selections from the Museum's growing collection of contemporary art including works by prominent Florida and national artists. *Image Credit: Steve Lotz, Florida Dreamscape VII, 1984, liquitex acrylic on gesso board*

## CURRENTLY ON DISPLAY IN THE CICI AND HYATT BROWN MUSEUM OF ART



## FLORIDA WEATHER FRANCE FAMILY GALLERY

Experience a myriad of Florida weather in just one day. The Florida Weather gallery offers a look at Florida weather as represented by art. Florida is known for weather that changes with uncanny speed. Sun, rain, wind, clouds, storms, and fog

all play a part in what the artist sees and wants to capture. The color, technique, rhythm, and texture are focused to evoke the full sensation of what is Florida's revealing environmental trait. *Featured painting: Naomi Duckman (Furth); Storm on Seven Mile Bridge, Florida Keys, 1935*



## THE SEMINOLE AND THE EVERGLADES FRANCE FAMILY GALLERY

The Everglades is a region of tropical wetlands that occupies the southern portion of Florida. Water leaving the vast, shallow Lake Okeechobee in the wet season forms a slow-moving river 60 miles wide and over 100 miles long. Human habitation in the southern portion of the Florida peninsula dates from 15,000 years ago. The region was dominated by the native Calusa and Tequesta tribes. After European colonization, both tribes declined. The Seminole nation emerged out of groups of Native Americans, mostly Creek, from what are now the northern Muscogee peoples. Artists from the early 19th century on have found the visual characteristics of the people and the land compelling subjects for artworks. The climatic conditions change frequently giving new dimensions of color, motion, and light to the landscape. The dramatic variables are a challenge to the painter attempting to capture a specific moment. The flora and fauna are often unique and fascinating. Rendering them is as often for scientific documentation as it is for the decorative motif. *Featured painting: James F. Hutchinson, Seminole Man, 1992*

**For more information about the Cici and Hyatt Brown Museum of Art, please visit [www.moas.org](http://www.moas.org)**



ONGOING EVENTS

**Wednesday, Yoga in the Gallery**  
**Wednesday, 5:30pm-6:30pm**  
Take a break from your busy day and enjoy weekly Yoga in the Gallery at the Cici and Hyatt Brown Museum of Art. Meet in the lobby to join registered yoga instructor, Ashley Brooks of Holistic Movements, for an hour-long session that will provide you with an opportunity to practice a series of gentle yoga poses. Class is open to all experience levels. Please bring a mat, towel, and water. Space is limited and registration is required. RSVP to the Museum at 386-255-0285. Check out our special session with First Watch on January 29.  
\$5.00 for members, \$10.00 for future members.

JANUARY

**Thursday, January 9**  
**5:30pm-7:30pm**  
**Wine Tasting: New Year, New Flavors**  
Join us at the Cici and Hyatt Brown Museum of Art for our wine tasting series with S.R. Perrott. Spend the evening among friends while you sip up knowledge on swirling, tasting, and describing wine while learning about different pairings of light appetizers from Ravish Catering. This quarter's program will feature six wines, some new to the Museum and some new to S.R. Perrott's collection. This event is for ages 21 and older. Seating is limited. Visit MOAS.org or call the Museum at 386-255-0285 to purchase your admission. No refunds after January 6.  
\$30.00 for members, \$40.00 for future members.

**Friday, January 10**  
**6:00pm-8:00pm**  
**Night Sky Viewing and Candlelight Tour at Gamble Place**  
Venture out to historic Gamble Place in Port Orange for an evening of stargazing and candlelight exploration. Enjoy a night tour of the Gamble Bungalow and the Black Forest Cottage to learn about the history of this unique hunting lodge. Weather permitting, join the planetarium staff as we take our telescopes and laser pointers on a field trip to the forest to guide you through this wondrous evening, with views of the Full Wolf Moon and winter constellations. Guests are welcome to bring their own chairs, telescopes/ binoculars, and curiosities about the universe. Be sure to dress for the weather. To aid our planning, advanced RSVP is required by calling the Museum at 386-255-0285. Visit MOAS.org for directions.  
This event is free, but donations are appreciated.

**Saturday, January 11**  
**7:00pm-9:45pm**  
**Second Saturday Laser Rock Concert**  
7:00pm Laser Retro  
8:00pm Laser Beatles  
9:00pm Pink Floyd – The Wall  
\$5.00 for one show, \$7.00 for two shows, and \$9.00 for three shows. Tickets may be purchased in advance by calling 386-255-0285

**Thursday, January 16**  
**2:00pm-3:30pm**  
**Florida Vistas Book Club: Palmetto Country by Stetson Kennedy**  
Join us for our next Florida history book club meeting at the Cici and Hyatt Brown Museum of Art where we will be discussing the book, *Palmetto Country*. Learn more about the book

at MOAS.org. Light refreshments will be served. RSVP by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

**Saturday, January 18**  
**10:00am-3:00pm**  
**5th Annual Florida History-Con**  
Join us for an all-day celebration of Florida history. Enjoy various Florida history reenactors, historical displays, costumes, local history clubs, and more! Visit MOAS.org for a full description of the day's lectures.  
Free for members or with paid museum admission.

**Schedule:**  
**10:30am:** Florida Women Pioneers with Dr. Peggy MacDonald from the Florida Humanities Council  
**11:30am:** Roaring Reptiles with journalist, Mark Lane  
**12:30pm:** The Origin of Daytona with historian, Joseph Vetter  
**1:30pm:** Democracy: Voices and Votes with University of Florida Professor, Dr. Steve Noll  
**2:30pm:** Florida on Fire: The Fire in the Sky with MOAS Senior Curator of Education and History, Zach Zacharias

**Saturday, January 18**  
**6:30pm-9:30pm**  
**Movie Night in the Lohman Planetarium: Bohemian Rhapsody and Laser Queen**  
Join us in the Lohman Planetarium for Freddie Mercury's biopic: *Bohemian Rhapsody*. The story follows his rise from an awkward, aspiring musician, to the front man of the biggest band in the world, to rock legend. Rami Malek won Best Actor at the 2019 Academy Awards for his portrayal of Mercury. Following the movie, continue rocking out to our new *Laser Queen* show! This film will be displayed in 16:9 aspect ratio on the planetarium dome in stunning 4K Ultra High Definition. Rated PG-13. Popcorn and snacks will be available at the concession stand. Please arrive at least 15 minutes prior to the event start time. Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285.  
\$8.00 for members, \$10.00 for future members.

**Saturday, January 25**  
**1:00pm-3:00pm**  
**Film Class: Directing Actors**  
Join award-winning videographer, Gary Lester, for this hands-on course that specifically targets new filmmakers working with inexperienced actors to get the best performances possible. Space is limited and advanced registration is required by calling the Museum at 386-255-0285.  
\$15.00 for members, \$20.00 for future members.

**Monday, January 27**  
**5:00pm-7:00pm**  
**MOAS After Hours**  
Join us at the Museum of Arts & Sciences for exclusive after-hours access to all of the museum's galleries, happy hour drink specials, and special programming throughout the evening. At 5:30pm enjoy a talk by Chief Curator/ Gary R. Libby Curator of Art, Ruth Grim on the new *Billie Holiday at Sugar Hill: Photographs by Jerry Dantzic* exhibition in the Karshan Center of Graphic Art. At 6:00pm meet Curator of Astronomy, Seth Mayo in the MOAS courtyard to experience the best night sky observing time of the year. While looking through telescopes,

Seth will talk participants through observing the celestial highlights of the winter sky and viewing the Moon and Venus (weather permitting). Free for members, \$5.00 for future members.

**Wednesday, January 29**  
**5:30pm-6:30pm**  
**Wednesday Yoga in the Gallery – with First Watch**  
Take a break from your busy day and enjoy weekly Yoga in the Gallery at the Cici and Hyatt Brown Museum of Art. Meet in the lobby to join registered yoga instructor, Ashley Brooks of Holistic Movements, for an hour-long session that will provide you with an opportunity to practice a series of gentle yoga poses. Class is open to all experience levels. Enjoy this special session in a quarterly partnership with First Watch by enjoying samples of their "Morning Meditation" fresh pressed juice while checking out the "Build your own Chia Pudding Station" following class. Please bring a mat, towel, and water. Space is limited and registration is required. RSVP to the Museum at 386-255-0285.  
\$5.00 for members, \$10.00 for future members.

**Friday, January 31**  
**2:00pm-3:00pm**  
**Porch Talk at Gamble Place: James Gamble and the Industrialists**  
James Gamble and other industrialists made the Halifax area their winter retreat. Join Senior Curator of Education and History, Zach Zacharias, at Gamble Place in Port Orange to learn about James Gamble of Proctor and Gamble fame during Florida's Gilded Age. Discover his love of the Spruce Creek and Port Orange and how he became one of the areas first "snowbirds." Space is limited and advanced registration is required. RSVP by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

**Friday, January 31**  
**6:00pm-9:00pm**  
**The 39th Asbury Short Film Concert**  
Join us in the Root Family Auditorium at the Museum of Arts & Sciences for The 39th Asbury Short Film Concert, presented by MOAS and Asbury Shorts USA. The 39th Asbury Short Film Concert will feature a fast-paced and highly entertaining line up of the best in short film comedy, drama, and animation. This two-hour showcase will include Oscar Nominees, US film festival 'Best of Show' winners, and international honorees from the past and present. This event is recommended for ages 16 and older. Museum doors open at 6:00pm for a reception with cash bar and light passed hors d'oeuvres. Doors for the auditorium will open at 6:45pm for open seating. Short film concert will be from 7:00-9:00pm. Purchase admission online at MOAS.org or by calling the Museum at 386-255-0285. No refunds after January 27.  
\$20.00 for members, \$25.00 for future members.

FEBRUARY

**Thursday, February 6**  
**3:00pm-4:00pm**  
**Florida History Lecture: The Lost Roadside Attractions of Florida**  
Florida is the original tourist destination. Roadside attractions were and still are part of Florida's heritage. Join Senior Curator of Education and History, Zach Zacharias in Root Hall and learn all about these unique stories. This topic covers popular tourist roadside attractions before Disney World including Six Gun Territory,

Miami Serpentarium, Pirates World, Bongo Land, and more. Learn how Disney World impacted the 100's of attractions that once dotted every highway in the state. Free for members, \$7.00 for future members, or with paid museum admission.

**Thursday, February 6**  
**4:00pm-5:00pm**  
**Ask a Planetarium Curator**  
Join us in the Lohman Planetarium for this audience guided show that can take you anywhere in the universe you would like to go! Come with your questions, curiosities, and interests, as we navigate freely through the Planetarium's vast digital universe. We cannot wait to explore the universe with you! Free for members or with paid museum admission.

**Saturday, February 8**  
**11:00am-3:00pm**  
**Family STEAM Day**  
Join educators, Kelsey Hansen and Nicole Messervy, fo a fun and creative Family STEAM Day at MOAS. While inspiring curiosity, families can channel their creative side to engage with several hands-on activities that connect art and science. Free for members or with paid museum admission.

**Saturday, February 8**  
**7:00pm-9:45pm**  
**Second Saturday Laser Rock Concert**  
7:00pm Laser X  
8:00pm Laser Metallica  
9:00pm Laser Zeppelin  
\$5.00 for one show, \$7.00 for two shows, and \$9.00 for three shows. Tickets may be purchased in advance by calling 386-255-0285.

**Tuesday, February 11**  
**5:30pm-7:30pm**  
**Cocktails & Creations: Hammer & Stain**  
Join us in the Consolidated Tomoka Education Room at the Cici and Hyatt Brown Museum of Art for a fun, creative night with Hammer & Stain NSB. Each guest will receive a complimentary cocktail to get the creative juices flowing for this DIY workshop where guests will transform unfinished wood into wall worthy pieces. Each guest will receive a 12x12 piece that can be customized or kept generic. This event is for ages 21 and older. Seating is limited. Visit MOAS.org or call the Museum at 386-255-0285 to purchase your admission. No refunds after January 6.  
\$30.00 for members, \$35.00 for future members.

**Friday, February 14**  
**6:00pm-8:00pm**  
**Love and the Cosmos in the Lohman Planetarium**  
Bring along your special someone to the Lohman Planetarium for an evening celebrating love and the universe. We will begin with our live astronomy show at 6:00pm, *Love and the Cosmos*, where we will search for love through all corners of outer space – from night sky constellation folklore to the Valentine's themed cosmic coincidences that can be found in planets, nebulae, and even galaxies. The love keeps on going at 7:00pm, with our *Laser Love Show*, featuring love-inspired songs synced to brilliant laser imagery. Telescope viewing will also be held in the MOAS courtyard throughout the evening (weather permitting). Each ticket includes a complementary glass of champagne and a small box of chocolates. Advanced purchase

of admission is recommended by calling the Museum at 386-255-0285.  
\$10.00 for members, \$12.00 for future members.

**Thursday, February 20**  
**2:00pm-3:30pm**  
**Florida Vistas Book Club: Hair of the Dog by Susan Slater**  
Join us for our next Florida history book club meeting at the Cici and Hyatt Brown Museum of Art where we will be discussing the book, *Hair of the Dog*. This month's meeting will be extra special as we will be joined by the book's author, Susan Slater. Learn more about the book at MOAS.org. Light refreshments will be served. RSVP by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

**Friday, February 21**  
**8:00am-5:00pm**  
**MOAS Member Trip to De Leon Springs and Blue Springs State Park**  
Join us for a trip to De Leon Springs and Blue Springs State Park to tour the famous springs and environments with MOAS Education Coordinator, Kelsey Hansen. After exploring De Leon Springs and its trails, enjoy a cook-your own pancake lunch at the Sugar Mill Restaurant which is located in a 100-year-old replica of the original 1830s sugar mill. For the afternoon, we will be exploring Blue Springs State Park, which is a famous spot for manatees during the winter. You must be a MOAS member to attend. Kindly RSVP by February 5 by calling the Museum at 386-255-0285. Please meet at the Cici and Hyatt Brown Museum of Art no later than 8:00 am and no earlier than 7:30 am. \$95.00 for members. Price includes transportation and entrance into the parks. Lunch at Sugar Mill Restaurant is not included.

**Saturday, February 22**  
**10:00am-5:00pm**  
**International Day of Women and Girls in Science**  
Bring the whole family for a full day of activities as we celebrate International Day of Women and Girls in Science. This large event will have a full array of expert female scientific speakers and presenters from various disciplines such as astronomy, biology, environmental science, chemistry, and engineering. There will be guest speakers in the Lohman Planetarium, as well as presenters and demonstrations throughout the Museum. Seating for our guest lecturers is limited and is first come, first serve for as many shows as you can attend. A full schedule of lectures can be found at MOAS.org. Free for members or with paid museum admission.

**Saturday, February 22**  
**5:30pm-9:00pm**  
**Movie Night in the Lohman Planetarium: Contact**  
Continue celebrating International Day of Women and Girls in Science with Carl Sagan's *Contact*. Radio astronomer Dr. Ellie Arroway (Jodie Foster) searches for extraterrestrial intelligence, receives a signal from space and is chosen for first contact. This film will be displayed in 16:9 aspect ratio on the planetarium dome in high definition. Popcorn and snacks will be available at the concession stand. Please arrive at least 15 minutes before the event start time. Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285. Following the film, from 8:00-9:00pm we will move outside (weather permitting) for a

telescope viewing of the Crab Nebula pulsar, a rare celestial object that strongly emits both radio waves and visible light. \$8.00 for members, \$10.00 for future members. Outdoor telescope viewing is free to the public.

**Monday, February 24**  
**5:00pm-7:00pm**  
**MOAS After Hours**  
Join us at the Museum of Arts & Sciences for exclusive after-hours access to the museum's galleries, happy hour drink specials, and a special tour of the *Singular Angles: The Art of Robert Huff* exhibit in the Gary R. Libby Entry Court by Barbara Young, Independent Curator and Robert Huff's widow. Free for members, \$5.00 for future members.

**Friday, February 28**  
**2:00pm-3:00pm**  
**Porch Talk at Gamble Place: Florida State Symbols**  
Florida has many state symbols from state marine mammal to state seashell. Join MOAS Senior Curator of Education and History, Zach Zacharias, at Gamble Place in Port Orange and discover the origin and history of these iconic symbols that represent Florida culturally and ecologically. Space is limited and advanced registration is required. RSVP by calling the Museum at 386-255-0285. Free for members or \$5.00 for future members.

**Saturday, February 29**  
**1:00pm-3:00pm**  
**Film Class: Pre-Production – Filming Your First Video Short**  
Join award-winning videographer Gary Lester, for an introduction to planning and organizing your first video short. Gain insight into recruiting the right executive team, choosing a compelling story, and identifying the perfect location. Space is limited and advanced registration is required. RSVP by calling the Museum at 386-255-0285.  
\$15.00 for members, \$20.00 for future members.

MARCH

**Saturday, March 7**  
**1:00pm-3:00pm**  
**Film Class: Video Composition and Sound**  
Join award-winning videographer Gary Lester, for an introductory hands-on workshop. Learn video production and design to develop camera skills and solid audio practices when filming on location. Participants will practice various types of camera shots and movement while composing visually amazing images that are lit for maximum effect and accompanied by high quality audio. If possible, bring your own camera. Space is limited and advanced registration is required. RSVP by calling the Museum at 386-255-0285.  
\$15.00 for members, \$20.00 for future members.

**Friday, March 13**  
**7:00pm-8:30pm**  
**Movie Night in the Lohman Planetarium: Friday the 13th Part II**  
Five years after the massacre at Camp Crystal Lake, the nerve-wracking legend of Jason Voorhees and his diabolical mother lives on. Despite warnings to stay away, new counselors explore the area and the horror returns. This film will be displayed in 16:9 aspect ratio on the Planetarium dome in high definition. Rated R; viewers must be at least 17 years old or accompanied by a parent or guardian ages 21 or older. Popcorn and snacks will be available at



## WINTER PROGRAMS

the concession stand. Please arrive at least 15 minutes before the event start time. Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285.  
\$8.00 for members, \$10.00 for future members.

**Saturday, March 14**  
**1:00pm-1:45pm**  
**Pi Day Celebration**

Join us in the Lohman Planetarium for a Pi Day Celebration! The mathematical constant  $\pi$  (pi) is roughly 3.14, so March 14 (3.14) is Pi Day! We will figure out what this number is, why it is so important in mathematics and science, and how it is part of our everyday lives. This is also a great excuse to have a free piece of pie! Space is limited and entry is first-come, first served. Free for members or included with paid museum admission.

**Saturday, March 14**  
**7:00pm-9:45pm**  
**Second Saturday Laser Rock Concert**

7:00pm Laser Vinyl  
8:00pm Pink Floyd – The Dark Side of the Moon  
9:00pm Laser Queen  
\$5.00 for one show, \$7.00 for two shows, and \$9.00 for three shows. Tickets may be purchased in advance by calling 386-255-0285.

**Tuesday, March 17**  
**6:00pm-8:00pm**  
**St. Patrick's Day Social**

Wear your green and join us at the Museum of Arts & Sciences for a fun St. Patrick's Day event! Guests can enjoy Irish music, a beer and whisky garden with samples and traditional cocktails, samples of traditional Irish cuisine, and a special performance by the dancers of The Worley-Hendricks Academy of Irish Dance. Visit MOAS.org or call the Museum at 386-255-0285 to purchase your admission.  
\$20.00 for members, \$25.00 for future members.

**Thursday, March 19**  
**2:00pm-3:30pm**  
**Florida Vistas Book Club: Final Decade by Zora Neale Hurston**

Join us for our next Florida history book club meeting at the Cici and Hyatt Brown Museum of Art where we will be discussing the book, *Final Decade*. Learn more about the book at MOAS.org. Light refreshments will be served. RSVP by calling the Museum at 386-255-0285.  
Free for members, \$5.00 for future members.

**Friday, March 20**  
**8:00pm-10:00pm**  
**Night Sky Viewing Party – Spring Equinox**

Mark the return of spring with the Vernal Equinox, when there will be equal parts of day and night throughout the world. Venus and the spring constellations, like Leo, The Lion, will be in prime viewing position. Weather permitting, join the Lohman Planetarium staff in the MOAS courtyard as we use our telescopes and laser pointers to guide you through this wondrous evening. Guests are welcome to bring their own chairs, telescopes/binoculars, and curiosities about the universe. A special presentation of "The Sky Tonight" will take place in the Lohman Planetarium at 8:30pm (limited seating). "The Sky Tonight" show is \$5.00 for adults, \$3.00 for children. The outdoor portion of this event is free to the public.

**Saturday, March 21**  
**3:00pm-4:30pm**

**Afternoon with Florida History**

Join us in the Root Family Auditorium for a presentation on Florida history. Free for members, \$7.00 for future members, or with paid museum admission.

**"So, after a few climbs to the top, you thought you knew everything about the Ponce Inlet Lighthouse!"**

John Mann has published over thirty articles on the history of lighthouses in various lighthouse publications. Ponce Inlet Lighthouse is both a National Historic Landmark and the last built and best designed and engineered of those towering coast sentinels. Join Ponce Inlet Lighthouse Head Docent, John Mann for a unique perspective on the history of our great lighthouse.

**Florida Ghost Towns**

Join MOAS Senior Curator of Education and History, Zach Zacharias for a unique look at the many Florida ghost towns that were once flourishing communities that crisscrossed the entire state. For various reasons, many of these towns fell on economic hard times and were completely abandoned. Learn about the lost city of El Dora and St. Francis in Volusia County, among others like Yamoto, Liverpool, Newnansville, Acorn, and other towns that are now extinct in Florida.

**Wednesday, March 25**  
**12:00pm-1:30pm**

**Lunch and Learn: Curator's Choice**

Amazing sunsets, people, rivers, and romantic vistas make the art collection within the Cici and Hyatt Brown Museum of Art a true jewel for learning about our state. Join Senior Curator of Education and History, Zach Zacharias at the Cici and Hyatt Brown Museum of Art for lunch and a unique look at the history, culture, and natural history of our state through this vast collection of paintings. Call the Museum at 386-255-0285 to RSVP and to place your lunch order. Space is limited and advanced RSVP and paid lunch are required. Lecture is free plus the price of paid lunch for members. Lecture is \$5.00 plus the price of paid lunch for future members.

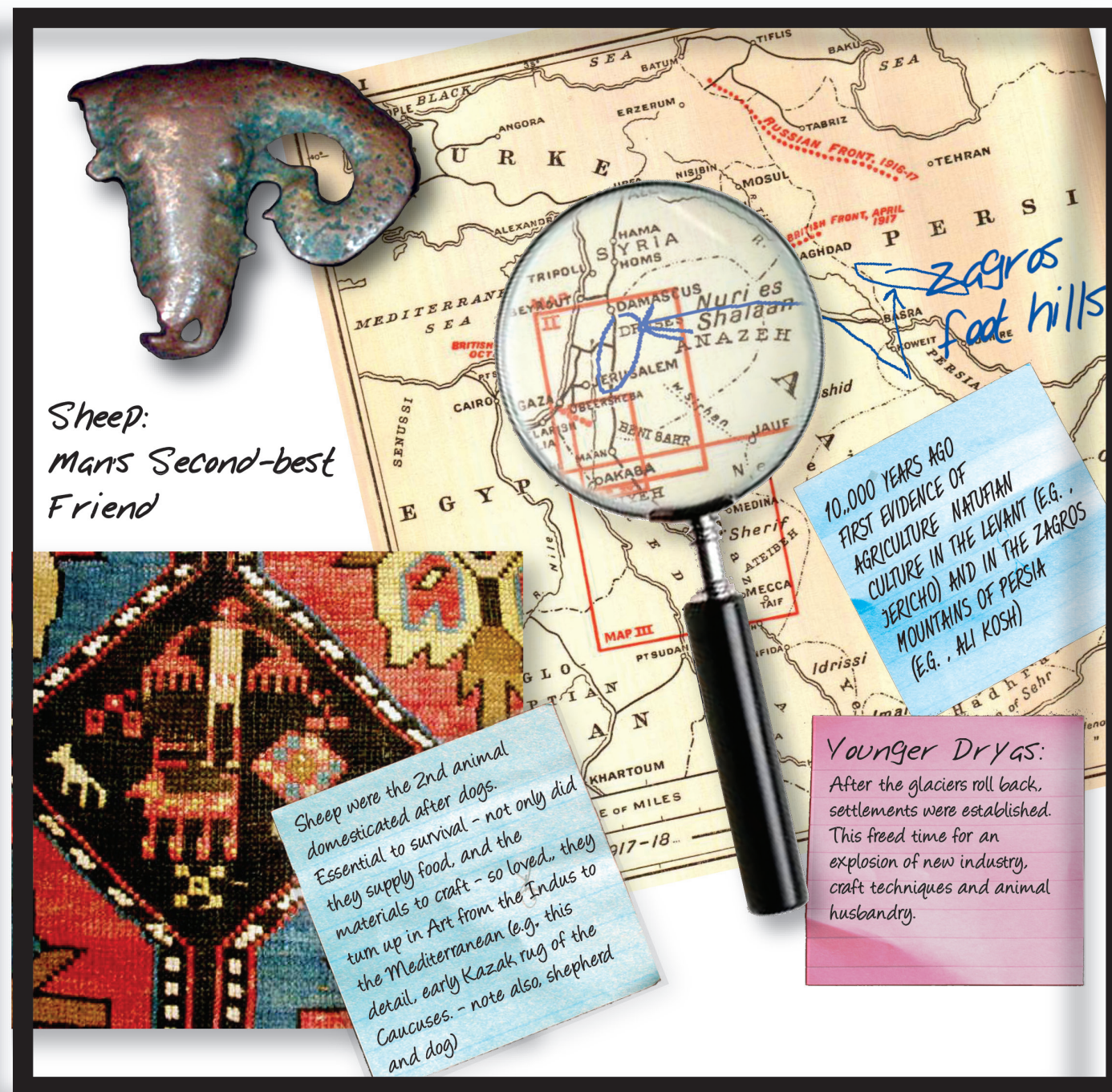
**Friday, March 27**  
**2:00pm-3:00pm**

**Porch Talk at Gamble Place: Florida During the Progressive Era 1890-1920**

The Progressive Era was a reaction and reform movement to the excess of the Gilded Age. It was a time of great change and much needed reforms. At the core of these changes were issues dealing with women's movements, conservations, temperance, and foreign policy, all of which played out across the nation, including Florida. Join Senior Curator of Education and History, Zach Zacharias at Gamble Place in Port Orange for a unique presentation on this rarely talked about time period in Florida history. Space is limited and advanced registration is required. RSVP by calling the Museum at 386-255-0285. Free for members or \$5.00 for future members.

**Monday, March 30**  
**5:00pm-7:00pm**  
**MOAS After Hours**

Join us at the Museum of Arts & Sciences for exclusive after-hours access to the museum's galleries, happy hour drink specials, and a special tour of the *World of Frida* exhibit in the Ford Gallery with Chief Curator/Gary R. Libby Curator of Art, Ruth Grim.  
Free for members, \$5.00 for future members.



## MOAS Gallery Specialist Tours

Tour with our Gallery Specialists from 3:00 p.m. to 4:00 p.m. on the second Tuesday and fourth Thursday of every month as they provide in-depth information on individual galleries around the Museum of Arts & Sciences and the Cici and Hyatt Brown Museum of Art. These tours are open to the public and are included with paid museum admission unless otherwise noted.

**Tuesday, January 14**  
**Gallery Specialist: Barbara Wavell**  
**Ford Gallery - Arts & Culture of Micronesia Exhibit**

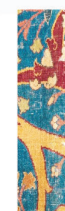
**Thursday, January 23**  
**Gallery Specialist: Marion Whelton**  
**Gillespy Gallery - African Art Exhibit**

**Tuesday, February 11**  
**Gallery Specialist: Kelsey Hansen**  
**Tusawilla Preserve**

**Thursday, February 20**  
**Gallery Specialist: Juan Junco**  
**Cuban Gallery**

**Tuesday, March 10**  
**Gallery Specialist: Zach Zacharias**  
**Prehistory of Florida Gallery**

**Thursday, March 19**  
**Gallery Specialist: Anne Gayla**  
**Root Family Museum**



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volunteer signup opportunities, and social time. We expand our minds and member base through these diverse programs. As always, we invite the general public to join us at our program meetings and become a member of the Guild.

As is true in every organization, there is always a relatively small core group of members who do the lion's share of the work to fulfill the mission of the entity. The Guild is no different; an always-dependable group of approximately 20 members are those who deserve the praise for making our many activities happen. They know who they are and frankly so does everyone else!

They are ALWAYS at the forefront working so hard. I am sure each of them would readily tell you that they treasure what they do for the Guild and Museum, that they value the friendships they have garnered in the process, and that they are having fun all the while.

The Guild doesn't exist in a vacuum. The leadership and staff of the Museum are a wonderful support to us as we plan our work and work our plan. Their support, accessibility, and assistance are invaluable to us. I extend warm thanks to each of them. I cannot think of any major Guild event that is not supported in some significant way by

individual members of the MOAS Board of Trustees. Their assistance, endorsement, and participation mean so much to the Guild volunteers. It has been my honor to represent the Guild on this board for the past two years and to get to know better these fine people. I take this final opportunity as President of the Guild to thank and salute the extraordinary volunteers who make this Guild the invaluable support to the Museum that it is. It has been my honor to serve as President. To the incoming President, Diane Rogers, and her board I offer sincere congratulations and best wishes for a successful two years. Enjoy your two years. I know I did mine!

## A WARM FAREWELL

### Reflecting on the Guild's Fall Fundraising Events

As my tenure as President of the Guild of the Museum of Arts & Sciences concludes, I have been reflecting on the brain storming, collective decision-making, countless hours of planning and implementation of the always-successful events the Guild members have staged during these past two years. (I hasten to add that their accomplishments are part of the decades of service provided by legions of volunteers over the years on whose shoulders we stand.) What an amazing group of people we have in this community who give of their time, skills, devotion, and finances to support and enhance our museum! I sincerely hope the members of the

Museum and the general community appreciate what these volunteers do. Of course, the Guild donates tens of thousands of dollars each year to help underwrite the significant expense of operating our wonderful MOAS, but there is so much more. Each Guild volunteer is an ambassador for the Museum in our community. Members are friendraisers, as well as fundraisers. The Guild unquestionably adds to the quality profile of the Museum. The Halifax Art Festival is ranked 18th in the top 100 fine art festivals in the United States. That is a REMARKABLE accomplishment in and of itself. BUT our festival is completely volunteer operated. That makes it very unique and even more praiseworthy.

The annual Children's Museum Golf Classic is another event that not only generates income for our museum but increases community awareness and allegiance. Area golfers enjoy this well-executed event including playing a great course, prizes, a silent auction, refreshments, lunch, and fellowship. They leave the event with a new or renewed awareness of our Museum and our Guild. Our annual fashion show, garden party, casino night, and artful interludes are always sellouts. Each year we glean new members from these superb events.

Our monthly meetings include excellent enlightening and entertaining programs, refreshments,





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# The Lowell and Nancy Lohman Family Planetarium

Since we first began teaching the wonders of the universe in the original facility in 1972, the planetarium here at MOAS has never had an official name. That all changed this past fall when we excitedly announced our new name: the Lowell and Nancy Lohman Family Planetarium.

This was only made possible by the generous donation from Lowell and Nancy Lohman, who gifted \$2.5 million dollars to our Museum endowment. As very successful Florida business owners and influential philanthropists in Volusia County, Lowell and Nancy's passion for astronomy and planetarium education fueled their ambition to contribute to the Museum in such an astronomical way.

To gain an understanding for their love of all-things-space, and their desire to cultivate education, we sat down with Nancy and Lowell for a brief interview.

Because of your generous support to MOAS, what does it mean to you both that this facility is now called the Lowell and Nancy Lohman Family Planetarium?

**Nancy:** For me, I think that in the planetarium, that students particularly, but people of all ages, who get the chance to come will be inspired to learn, and I think they'll be inspired to learn in a really fun way. The more education is fun and the more it's inspiring, the better job it will do with our children, and the better job we'll have as a future.

**Lowell:** Now to be asked by Hyatt and Cici Brown mainly, but to be asked to be involved in the planetarium - Nancy and I are ecstatic. When they first talked to us about getting

involved, they did not know the astronomy background that Nancy and I had. So, we had lunch at their house one day - and all of a sudden - the planetarium came up and they saw Nancy's and my reaction. They saw how excited we got, and they figured that they had us hooked at that point. But, it's so incredibly nice to be involved with the Museum of Arts & Sciences.

Also, Carl Persis, the chairman of the school board in Volusia County now, when he found out that Nancy and I had gotten involved in everything - he was almost in tears. He got so excited, and Nancy and I didn't know at the time, he said, "Lowell, we send students to the planetarium every week and the stories we hear from the teachers and everybody are

phenomenal." The excitement that he had that we were involved was very rewarding for us.

We hear there is a personal story to tell about your love for astronomy.

**Nancy:** One of the things that I've always loved about Lowell is how much he values education, and one of his favorite quotes is, "life's adventures begin with education," and I realized that he was a consummate learner many years ago. One of the true testimonies of that was when he wanted to take an astronomy class because he never had the chance when he was at Florida State. So, I joined him in taking that class, and the funniest thing to me is he wanted to have supplemental reading to go along with his textbooks. That told

me that, not only is he a consummate learner, but he really attacks the things that he really finds interesting.

**Lowell:** I think the first thing that got me interested in it pretty much was I majored in biology and chemistry at Florida State. After I graduated, I had a chance to take astronomy one time there, and I didn't take it - I'm sure I took Badminton or something in place of it - so for years-and-years I felt like I missed something. Then it was in the local Daytona Beach News-Journal one day that there was a one night a week - on Thursday nights - a 3-hour class on astronomy. So, I told Nancy, you know, when I read it in the paper, "Nancy it's just something I feel like I missed in life and I'm thinking about taking astronomy." Well, the next day she says to me she'll take it also. It ended up being both of us, but it was just incredibly exciting, and I found out a lot about myself in the next month or two. I read everything that moved - they even knew me at Barnes & Noble on a first-name basis. We read the textbooks and everything, and it was crazy. I still don't believe I did it. And I would go to Barnes & Noble and check out other books that had similar things and read the other stuff on astronomy. So, it was a good learning experience, and to have your wife there - you know it wasn't the number one thing she wanted to do was to take astronomy, but I think we both laugh about it now. But yes, I've always had an interest in astronomy.

How have you both kept up this shared passion for astronomy over the years? Any favorite television shows or observatories you visited over the years, or even night sky observing events you've been to?

**Nancy:** So, we have traveled to a lot of different observatories - Kitt Peak, Keck - but one of the best experiences I've ever had regarding the night sky was seeing the Northern Lights. Gosh, if you want to be inspired by the sky, that's the way to do it. I mean the Northern Lights were amazing, and just to see that movement, and to know that something out there is happening, and to see how colorful it was - it was fantastic. I

Lowell and Nancy Lohman pictured in the Root Family Museum Train Station at the 2019 Passport Gala Fundraiser, just hours away from the public announcement for the naming of the Lowell and Nancy Lohman Family Planetarium.

**I think that in the planetarium, that students particularly, but people of all ages, who get the chance to come will be inspired to learn.**



**I hope the planetarium encourages education. I hope it encourages people of all ages to want to continue to learn, to continue to wonder, to continue to explore. I hope that it is a part of why people love Daytona Beach.**

actually photographed it and captured amazing photos. So, it's one thing to see the sky and to appreciate all the stars and appreciate what's happening up there, but then to let your camera just sit for a few seconds - 8, 10, 15 seconds - and see what's really there in the sky - that's phenomenal. That's what you see with the Northern Lights, I mean you see that there's so much out there that you had no idea what's happening. It's pretty exciting.

**Lowell:** I think the Keck telescope at that time was the largest in the world, and Nancy and I flew all the way to Hawaii to visit it at the top of mountain Mauna Kea at the time. A couple of years after that we went to Kitt Peak [in southern California] and it has even more - something like 16 separate telescopes. And obviously, the key to telescopes is to get up above the atmosphere so you get a clearer picture of what's happening out there. In Flagstaff, Arizona, there is the Lowell Observatory, so Nancy and I obviously had to go there. We actually got to see the Orion Nebula, which is just fascinating, and we had a special deal that they had set up for us where we got to sit at the telescope for a long period of time and relax and concentrate on it. The funny thing was just before we left, Nancy went to the observatory gift shop and bought every t-shirt they had so everyone in our family - and a lot of our friends - had t-shirts that said Lowell Observatory. There are two to three others that we went to over a period of time, and we were searching for other observatories to visit because it is so interesting. You can tell that this has been a great experience for us both. To have a facility here in Daytona is just phenomenal, now that Embry Riddle has a large telescope that I think is one of the largest in the southeast.

Do you each have a favorite celestial object, or planet?

**Lowell:** As I already mentioned, you know the Orion Nebula, with all the stars, and then the band of - I don't know how many stars there - but right across the waist there must be something like 20 stars there, you know kind of clustered together, and the rest of the figure you can see - that's my favorite.

**Nancy:** Well I have to say Vega [star], because I can find it! But I will tell you, this will sound sappy, but my favorite is the North Star, and that's Lowell. He's my North star.

**Lowell:** Get out of here! (laughter)

Is there any aspect of the universe you'd like to know more about?

**Lowell:** How it all got started. There's a question mark out there - we know just enough I think now to be dangerous - as time goes by we find out more and more. I think just trying to visualize the Big Bang - how it got started, how all these stars got started - to me that's the fascinating thing as time goes by. They found that the universe is expanding. How did it happen? What's happening now because of that? And as you study it, it does make sense, but it's hard for the brain to comprehend it all.

Looking forward, what kind of impact do you hope the Lowell and Nancy Lohman Family Planetarium will have on future generations?

**Nancy:** I hope the planetarium encourages education. I hope it encourages people of all ages to want to continue to learn, to continue to wonder, to continue to explore. I hope that it is a part of why people love Daytona Beach.

**Lowell:** If you've not been here you're missing something. I think the new facility - you know it had been redone like five or six years ago and when we walked in the doors, it was pretty impressive. And I think if you haven't been here, that you're missing something - it's such a great facility. To look up at the sky and see all the constellations and everything that you see while you're here and learn about the planetarium and know it's part of Daytona Beach too. You know, there are planetariums in most of the major cities, but being involved in our city here - we just encourage anybody that's not been here to get your butt out here because it's pretty impressive. That's my advice to people.

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