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LETTER FROM THE EXECUTIVE DIRECTOR



Photo op from the MOAS Birthday Party held on July 25, 2021.



ANDREW SANDALL

It really has been both fun and eye-opening to research the early days of the Museum of Arts & Sciences for this edition of our magazine, and as we put together our story to celebrate our 50th anniversary of opening at the Tuscawilla Preserve this past July. I have had so many people come up to me after reading the stories telling me they had no idea how different the Museum was back then, that the Museum had been in existence for almost 25 years when it moved here, or that our current site was its third home!

The story of our museum truly is a remarkable one and at its core shows just how important the role of volunteers in our community has been for a long time. It would surprise many to learn that originally, we were not even supposed to be a museum. Instead, the idea for a library to support the local school system was what brought the volunteers together who would go on to be our founders. The offer of a donation of a collection of shells – a collection we still house and use for educational programs and display today – changed everything, and the scope of our founder's vision grew to start thinking about a museum of natural history too.

What unfolded and evolved over the following 23 years that saw the Museum arrive at its current site is a remarkable story and one we will likely explore some more when our organization celebrates its 75th Anniversary in 2023. But even the story of how we got to Tuscawilla has some unexpected twists and turns and gave birth to the diverse, eclectic mix of stories and collections we continue to exhibit and provide programs on today. Much of the primary source material we were able to find suggests the Museum was originally planned to focus much more heavily on the natural history of Daytona Beach. It was only once the project was gathering steam did ideas like the addition of the original Planetarium come along, along with another group of enthusiastic volunteers dedicated to making it happen. This group is now known as the Junior League of Daytona Beach. Another twist of fate saw MOAS needing an emergency new home that led us to the original Cuban Museum and that would see us incorporate their world-renowned collection into the plans for our new facility.

So much of our research for our birthday celebrations was assisted greatly by the remarkable memory of our former President, Leila Gosney. The booklet she gave me

several years ago, containing her reminiscences, stories, photos, and many documents and press cuttings from the late 1960s and early 1970s, was invaluable to me. But having her so willing to share her memories was absolutely priceless. I hope you enjoy my interview with her in this magazine as she gives us a great insight into what getting the Museum to where it is today entailed. It was a highlight of our celebrations to have her cutting our birthday cake alongside our current President, Katherine Hurst Miller, and bringing together the leaders in our community that spanned our time here and represented the many people who have made us such a key resource and fixture in Daytona Beach, Volusia County, and our region.

When going through our story it is natural to wonder what our founders

and the people who got us here to Tuscawilla would have made of what we have become today. A couple of days before our anniversary date I attended the grant panel meeting of the Volusia County Cultural Council in DeLand, as I try to do every year, and listened to all our partners in the arts and cultural community give their updates on how their years have been. It was noticeable how many mentioned that they were coming up on big anniversaries, many like us celebrating 75th or 50th birthdays in the next couple of years. It made me realize just how big our community back in the 1940s through to the 1960s was thinking, and how driven they were to create an arts and culture scene in post-war Daytona Beach and Volusia County.

So, I really don't think they would be that surprised by what they would find at MOAS if they could

see it today. I think they would be pleased and happy that we lived up to their ambitions. They would be delighted that they made so many good decisions and gave us such a wonderful platform on which to build. And most of all I think they would all be proud that the community came out and supported us just like they hoped they would. As I said in my interview with the Daytona Beach News-Journal for the anniversary, we can be rightfully proud of how we have grown and expanded the Museum in the last 10 years, but we have been truly standing on the shoulders of giants. It was so wonderful to be able to celebrate them and honor them at our birthday party, and it will be even more fun to go back and explore our origins even more deeply in a couple of years' time when we hit 75 years since our founding.



IN MEMORIAM OF *Helene B. Roberson*

All of us at the Museum of Arts & Sciences were greatly saddened to learn of the recent passing of Helene B. Roberson. A generous funder of the arts, cultural, and education communities in our region, Helene was a proud support of our museum and our work, most notably with her donation to match a Volusia County ECHO grant that allowed us to fund the building of the Helene B. Roberson Visible Storage Building in the Museum's North Wing. Our thoughts are with her family during this time. She will be greatly missed by all of us at the Museum and throughout our community.

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 Tuscawilla 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, Elfun 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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INTERN *Spotlight*

Skills, training, development and personal growth at the Museum of Arts & Sciences



CAITLYN MONTGOMERY

Caitlyn is currently interning for the Education Department at MOAS for Fall 2021. She recently graduated from Rollins College in May 2021 with a Bachelors in Anthropology and Archaeology. Her primary interests are in history and curation. She is very excited to have the opportunity to work with MOAS Senior Curator of Education and History, Zach Zacharias and the Education and Curatorial Departments. She worked on one of our recent exhibits, *Skulls: From Ancient Beasts to Modern Giants* and was able to closely handle the skulls, take part in preparing the exhibit space and prepare display cases. She looks forward to many more opportunities while interning at the Museum of Arts & Sciences!

VOLUNTEERS *of the Quarter*



SCOTT AND TRACI TRUSLER

Scott and Traci began volunteering in 2019 when a walk through Tuscawilla Preserve got them wondering if there were any volunteer positions open for beautifying the trail. It's now two years later and their monthly excursions on and off the trail in the Preserve yield far less trash than when they began. Their very first day lasted several hours and ended with several bags of trash and recycling, and now an hour-long stroll and a small bag each for trash and recycling typically is all they need to keep the place spruced up. They say even though the process is often like a fun scavenger hunt, it's always much more rewarding to see the trail staying clean. Plus it gives them more opportunities to stop and enjoy the many interesting animals and plants they encounter during these excursions.

Scott and Traci are always up for walking and exploring together, so this volunteer position fits them perfectly. The two met in early 2016 at a grief support group for young widows after both their first spouses, Susan and Ken, had passed away. A mutual love for Disney World sparked an initial connection and began a wonderful second chance at love for them both. They married in 2018 and enjoy spending as much time together as working-life allows. Scott, a native of Western New York, is an automation engineer at Sandvik in Palm Coast, and Traci, who hails from Ohio, is the volunteer coordinator (and mermaid!) at Marine Discovery Center in New Smyrna Beach.

Scott and Traci enjoy lots of fun-filled activities from road trips, movies, and theme parks to pinball, bowling, and roller skating. They also love using their MOAS memberships for frequent visits to the Museum. When they're not donning boots, gloves, and grabbers on the trail, the pair can often be found in the Lohman Planetarium during laser rock concerts, exploring the exhibits, or chatting with the wonderful staff.

Auspicious Beginnings:

The First National Traveling Exhibition at MOAS



FREDERICK J. WAUGH, AMERICAN, 1861-1940, *EVENING PERIL*, 1906. OIL ON CANVAS.
GIFT IN HONOR OF KENNETH WORCESTER DOW FROM AN ANONYMOUS DONOR.

The Museum of Arts and Sciences' association with the Smithsonian Institution in Washington, DC stretches back to its earliest days as the inaugural traveling exhibition that graced its walls when it opened in its new building in 1971 was *Paintings by Frederick J. Waugh (1861-1940)* which was being traveled by the Smithsonian Institution Traveling Exhibition Service (SITES). SITES had been established in 1951 with the support of a private memorial fund and a grant from the Department of State. By 1962, the Service was circulating 135 exhibits to 316 museums within the United States and two exhibits abroad.

This exhibition organized by SITES came from the collection of Edwin A. Ulrich, a Hyde Park, New York, businessman who had amassed more than 300 works by Frederick Waugh.

By the mid-twentieth century, Waugh was regarded as one of the most important pre-war marine painters. Born into a family of artists, his father, Samuel B. Waugh, was a respected Philadelphia portrait painter, and his mother, Mary Eliza Young Waugh, a miniaturist. With encouragement from his parents, he attended the Pennsylvania Academy of the Fine Arts, where he studied with Thomas Eakins and Thomas Anshutz. After three years, he left for Paris, where he entered the Académie Julian and studied under Adolphe William Bouguereau and Tony Robert-Fleury. In 1883, while he was still a student, his work was accepted at the Paris Salon.

With this type of training in traditional Academic painting at some of the best art schools of the day, Waugh became versatile and accomplished at depicting a variety of subjects. But it was his marine paintings that brought him critical attention. He re-located to the British Isles in 1893 and began to study water, rocks, and sky while painting en plein air. Within a few years, he had set up his studio in the English coastal town of Saint Ives in Cornwall, a spot favored by one of England's greatest marine painters, J. M. W. Turner.

Waugh remained in England for twelve years, returning to the U.S. in 1907 where he eventually settled in Provincetown, Massachusetts. He was elected a member of the National Academy of Design in 1911. For five



IMAGE CREDIT: ORLANDO SENTINEL, JULY 28, 1971



IMAGE CREDIT: THE SUNDAY NEWS-JOURNAL, JULY 11, 1971



TROUBLED WATERS

...MRS. WILLIAM C. JOHNSON AND MRS. TOM MOORE ADMIRE ONE OF THE FREDERICK J. WAUGH'S SEASCAPES. IMAGE CREDIT: THE SUNDAY NEWS-JOURNAL, JULY 25, 1971

consecutive years he was voted the favorite artist of the prestigious Carnegie International Exhibition in Pittsburgh. A highly sought-after artist, he painted many canvases a month to keep up with the demand for his work. With his reputation for a realistic handling of beach and water on his canvases, the U.S. government called on him to help camouflage the naval fleet in World War I. When he died, he was buried on the New England coast.

Decades later in another coastal town, the Museum of Arts and Sciences, in Daytona Beach honored the legacy of America's great tradition of marine painting in its inaugural exhibition celebrating the new cultural center of Volusia County – MOAS at "The World's Most Famous Beach." ■

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Early MOAS Collections: **THE ESTHER BATES SHELL COLLECTION**

Esther Bates was one of the Museum's original benefactors. Her influence helped to shape the Museum from the very beginning and create the wonderful institution that has become a centerpiece of our community. It began in 1941 as she walked along the Daytona Beach shoreline and noticed the great diversity of seashell species washing up on the shore. She began picking them up and saving them. Over the years she continued picking shells off the beach and adding to her personal collection. Her collection became very vast and would be one of the first major science donations to the Museum of Arts and Sciences.

Esther came to Daytona Beach as a child when her parents retired to the area, so she was no stranger to the beach. Throughout the 1940s and 50s, her shell collection expanded as many specimens were collected from other parts of North America and from around the world. Esther's collection of mollusks became a world-class collection with some of the specimens being donated to the Smithsonian Institution. Thankfully, she had the foresight to keep most of the collection local.

Later in life, Esther Bates opened a local bookstore called the "Book Nook" and it was here where she displayed her growing collection. It garnered a great deal of attention

locally and from the travel community. In a popular travel magazine called "Day by Day," in the January 11th Edition of 1955, Esther's seashell collection, currently on display at her "Book Nook," was listed as a place to visit while in the area. Tourists could visit the store located at 161 South Atlantic Avenue in Daytona Beach and marvel at the great shell collection. The "Book Nook" was already well known by locals.

Esther had always had an interest in the creation of a museum in the area. In 1961, the newly formed Museum of Arts and Sciences would be in the right time and place for Esther Bates to commit to the donation of her entire mollusk collection. The Museum had just changed its name from Halifax Children's Museum to the Museum of Arts and Sciences, and she became the very first lifetime donor with a \$500.00 donation.

Esther was quite a remarkable woman. In 1954, the Daytona Beach Business and Professional Women's Club named her Woman of the Year. She served in the League of Women Voters, the Association of University Women, the Volusia Hammock Parks Association, the Good Neighbors Group, and the Little Theater. Esther was a member of the American Malacological Union and she is mentioned for her shell collecting in a Harvard University publication.

When she died on Monday, March 26, 1962, she donated much of her estate to the newly formed Museum of Arts and Sciences including her large shell collection and bookstore. The terms of her will gave the Museum several options as to do with the bookstore. They could continue to operate it and use the profits to help fund the Museum. They could sell the business and keep the profits from the sale. Or, they could close the business and take the books suitable for the Museum's library. After she died, the young Museum had an exhibit hall called the Ocean Room which housed the magnificent shell collection bearing her name.

In recent years, parts of the collection have been on display in two back-to-back summer exhibitions which featured the Museum's collection of marine specimens. The collection has also been used over many years in outreach programs and the Summer Learning Institute. Let's look at a few specimens.

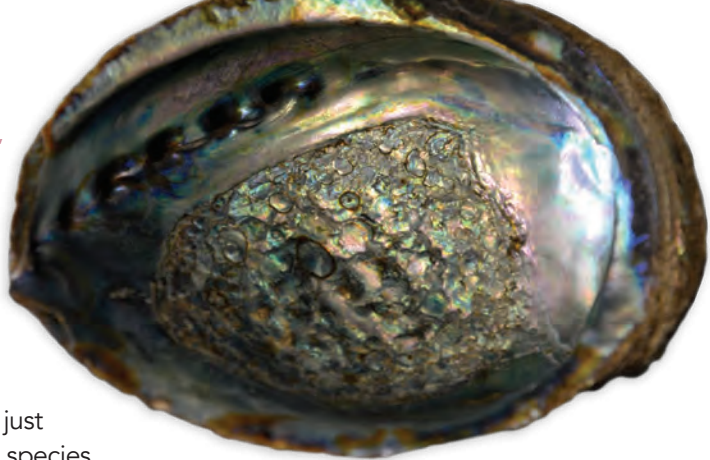
The horse conch, *Triplofusus giganteus* is Florida's state shell and is the second largest marine gastropod in the world. A gastropod is a shell that is a single shell, as opposed to a bivalve which has two parts. This shell can grow to over two feet long and is common in shallow and coastal waters of Florida. The horse conch is

ABALONE GASTROPOD,
HALIOTIS ASININA

a voracious carnivore eating other mollusks by smothering their prey with a large orange-red foot. Lighting whelks, clams, and tulip shells are just a few of the other mollusk species that are hunted by this enormous gastropod.

Another fabulous shell is the beautiful abalone gastropod known by its scientific name *Haliotis asinina*. Most abalone species are found in cold waters, such as off the coasts of New Zealand, South Africa, Australia, Western North America, Japan, and even the Atlantic coastal waters of the Arctic and Antarctica. These snails can attach their muscular foot to rocky surfaces at depths up to 600 feet. The interior has a beautiful iridescent color showing off green, purple, and blueish hues in an unusual somewhat round oval convex form.

One common Florida bivalve in the collection is the Giant Atlantic Cockleshell or its scientific name *Dinocardium robustum*. The two valves of the shell are equal in size



and shape and range in color from brown to red or yellow. Many species are quite smooth; others have ribs radiating from the hinge area between the shells like the one from Florida. The Giant Atlantic Cockle is one of the largest shallow-water bivalves found in the Gulf of Mexico and is very common in Southwest Florida. Most species live just below the low tide line.

Through the generosity and forward thinking of Esther Bates, the hobby she began in 1941 became an important scientific collection. It became one of the foundations for the fledgling Museum of Arts and Sciences. She understood that her gift would benefit not only the Museum but the whole community that she loved. The Museum is very lucky to have had such wonderful benefactors like her, and these legacies continue to shape future generations. ■

HORSE CONCH,
TRIPLOFUSUS GIGANTEUS



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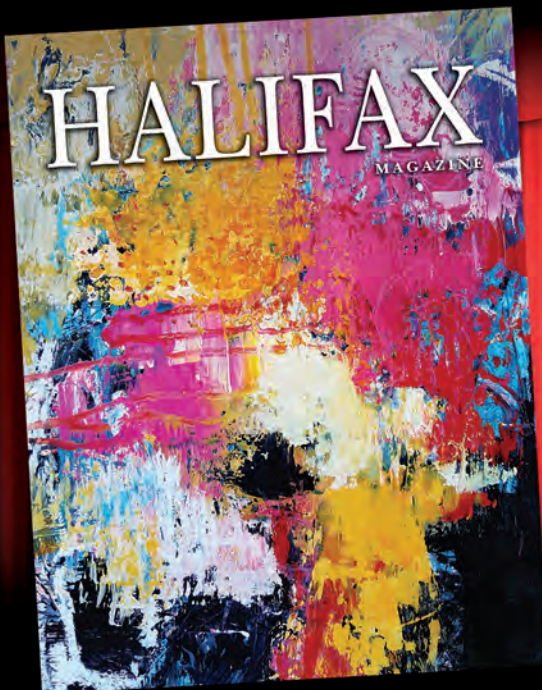
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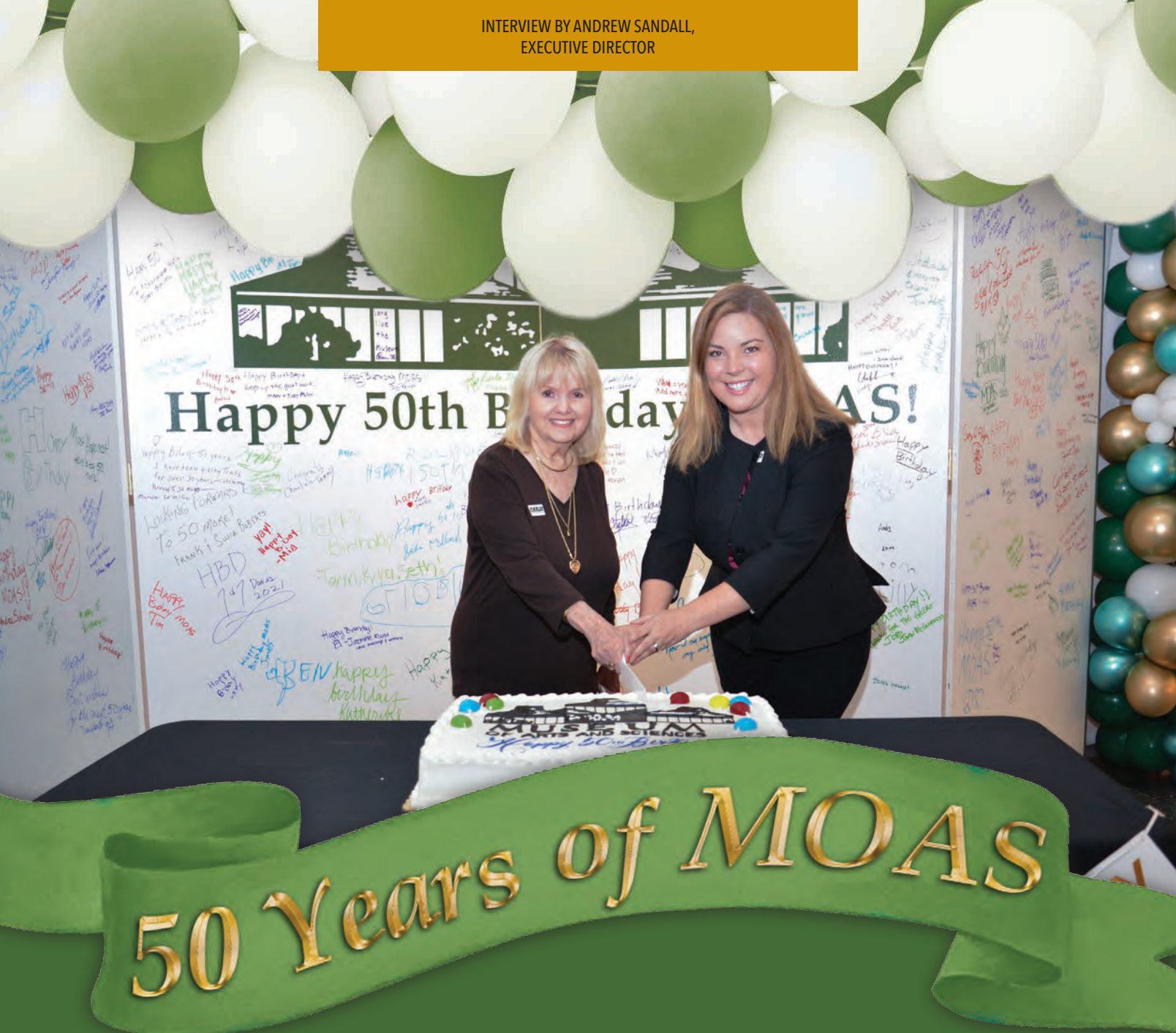
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On July 25, 2021 we celebrated the 50th anniversary of the Museum of Arts & Sciences at its Tusawilla Park location. We are so proud of the home that we have built and the community of supporters that have become part of our family. However, very few have been a part of our family for as long as Leila Gosney, who was first introduced to the Museum of Arts & Sciences back in the mid-60s.

As we look back 50 years ago to when the Museum moved to its permanent home, I thought it would be fitting to interview Leila on her first memories of MOAS and the start of what is now a prominent Smithsonian Affiliate Museum.

1. How did you first get involved with the Museum?

My first introduction to the Museum of Arts & Sciences (MOAS) was in 1966-67 when I was appointed to the project finding committee of the Junior Service League or JSL (presently known as the Junior League of Daytona Beach, Inc.). Dr. Joseph Snyder presented a project to the JSL. He sought \$60,000 to build a planetarium as a portion of the proposed new museum to be located in the Tusawilla Park area. The MOAS prior to this time was made up of a small-dedicated group of people but had never been able to "get off the ground" so to speak. Joe conveyed to the JSL the need for the League support. The League had the confidence of the community and the reputation of completing projects that they decided to support. The educational benefits that our children would derive from such a facility would be immeasurable. Also, the community

needed the Museum to make it a more attractive location for businesses to relocate, thereby helping the local economy. After research of the many projects proposals, the league accepted the Planetarium project. It was felt at that time that the JSL was more capable of fundraising than taking on a volunteer intensive project. The JSL is not one to give money unless they have a say in how it is being spent so they negotiated to have three seats on the Board of Directors of the MOAS with the promise to raise \$60,000 over a three-year period.

The MOAS now had a piece of land reserved for the new building and a commitment from the JSL. I was appointed to the Museum's Board of Directors as a JSL representative. I will never forget my first meeting with the Museum Board. We met in the old Cuban Museum on Halifax Ave. The Board was made up of a group of dedicated people who were on fire to have a museum of consequence in Daytona Beach. Their enthusiasm was contagious, and I caught it that very first meeting. I loved the group and the vision.

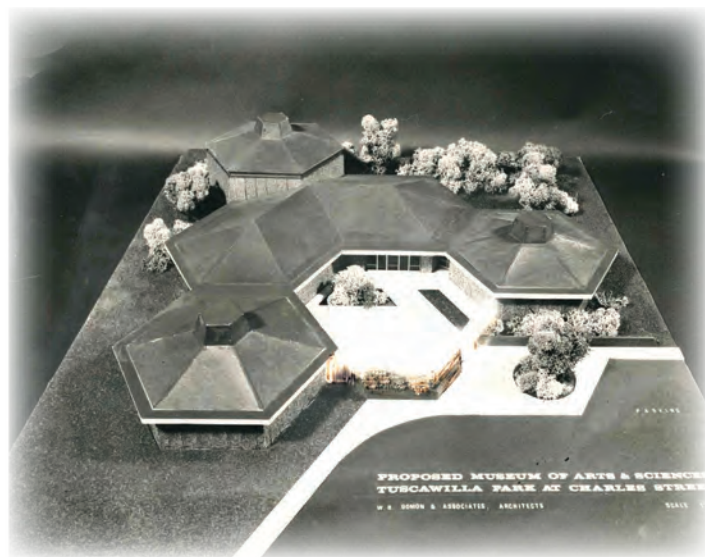
2. What are your memories of the Museum on White Street and then at the Batista House? Can you remember any exhibits or programs at those locations?

My memories of the White Street Museum are from recollections of the board members I worked with, not from my participation. Also, some of the collections were moved to the Cuban Museum on Halifax which is where my active participation began. Don Herold prepared a Victorian Christmas Exhibit at the Cuban Museum which was well received. The Guild members, led by Marge Sigerson, always prepared delicious goodies for the receptions, which captured a friendly and inviting atmosphere.

The big thing that the children loved from the White Street Museum was the "Cave." It was made of plaster and the children could crawl through it, if my memory serves me correctly. Also, the shell collection and books donated by Esther Bates. Remember, there was no Library in Daytona Beach at that time, so the Museum served as a place for children to come and learn, have stories read to them etc. The ladies that started it wanted it to be a fun place for children to come so they would want to come back.

3. Can you remember the discussions about the Museum moving to the Tusawilla Preserve? Who were the people driving that project for the Museum back then?

Alys Clancy, who was the City Parks Superintendent, was a major player in having the Museum built in Tusawilla Park. Money was hard to come by for the Museum, so with her help and the urging of Mrs. Roger West, President of



the Council of Garden Clubs, the City gave the Museum a lease on the southern 10 acres of the park to build a new museum. Incidentally, this was the highest part of the park!

4. What do you remember about the design and construction projects? The 'pod' concept seemed very creative and drove the growth of the Museum for a long time, so what was the discussion that led to that design?

Jay Fletcher, Architect with Gomon and Associates proposed the design after consultation with the building committee and the absolute firm hand of Edith Elliott, Chairman of the building committee that this Museum had to be a "gem" of a museum, not just four walls. He brought the Pod design to the committee and presented the advantages of the design that could be added onto in many different ways. His design was chosen after much discussion.

5. What do you remember about our opening day? How did people react to the Museum in those early days?

It was such a feeling of relief after so many years of struggle to get the building off the ground!

To finally have the building was wonderful.

6. You became President of the MOAS Board in October 1971, when we had been open barely four months. What challenges did the Museum face back then as it established itself in the community?

Just to get the word out to the community and have it become a "place to be" was a major effort.

Funding was a continuing process. In the first four months, a big membership drive was promoted by the Board of Directors.

Don Herold was busy cataloging the collections that the Museum had and just moving into the new space.

7. What were your favorite programs and exhibits from those early days of the Museum? What did you find the public really enjoyed about coming to MOAS?

This was a totally new experience for the community. When I took office as President, I was fortunate to have an enthusiastic group of volunteers that gave of their time and talents to help the Museum get started. Dave Sigerson secured a collection of dolls from around the world from Aleda Olmsted. John and Ann Heist artistically set up the exhibit and we had 3,000 people visit! This was a great start to getting people talking about the Museum. We had a Robert Butler Exhibit and the Jewish ceremonial objects for the home, procured by Henry Saltzman; a Daytona Beach Community College Art Show and a Student/Faculty Photography Exhibit; and Hester Ayres artwork curated by Drew Murphy. These were exquisite ink drawings of African Tribal Faces done for the National Geographic magazine by Ms. Ayers. She was an interesting and talented New Smyrna Beach resident that I had the pleasure to meet and visit with in her home. Drew Murphy also set up an Oriental Exhibit through his contact with Col and Mrs. Greiner. This collection later was donated by the Grieners to the Museum and is part of the Museums' permanent collection of Oriental works. All of these exhibits were completed by our talented volunteers with no paid staff!

8. The Planetarium was still under construction when the Museum opened in 1971 and wouldn't open for over another year. How much did that change things when it opened?

Finally having the star machine, provided by the School Board along with funds for an onsite teacher to conduct classes, the School Board agreed to transport children from school to the Museum for this educational opportunity. A dream accomplished by the Board of Directors, to have children come to the Museum and have a memorable experience that they would tell their parents about. A new beginning.

9. What do you think the people who worked so hard to make the Museum here in Tuscawilla a reality would think if they saw how much the Museum had grown in the last 50 years? Do you think they ever dreamed it could become such a major part of the community?

I think they "dreamed" it, but it is so much bigger.

10. What has being involved in MOAS meant to you? How does it feel to look back at what we've achieved over these 50 years and know you were there when it all started?

It has been a wonderful, rewarding experience in my life. Many lifelong friendships were developed along the way.

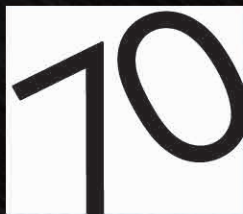
The Museum has had a great impact on the life of my two sons, Clifford and Steven, the Museum cultivated a lifelong interest in Art, History and Science. I hope that it has done as much for thousands of other children in the community and will keep doing so into the future. ■



A Message from MOAS Board President, Katherine Hurst Miller

What a joy to cut the cake with Leila Gosney and celebrate fifty years of MOAS in its current location! It was a pleasure spending the day at the Museum with family, friends, and the many visitors who signed the Museum's birthday card wall. We toured the exhibits, played in the children's museum, and danced to the DJ in Root Hall. As I sat in a special planetarium show depicting the night sky on July 25, 1971, my mind rocketed fifty years into the future, to July 25, 2021.

Fifty years from now, I fully expect MOAS will remain a vibrant part of the community. Like the collections showcased in our galleries, this organization is both built to last and able to change. The next five decades will require leadership, creativity, fundraising, and responsiveness to the needs of our community. Fortunately, we have those in skills in abundance with our board of trustees, museum guild, volunteers, and staff. We are poised for success in the future, and I hope you are a part of the next fifty years at MOAS.



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JACKSONVILLE SYMPHONY "Messiah"

FRIDAY, DECEMBER 17, 2021

POLAND PHILHARMONIC ORCHESTRA

Agata Szymczewska, violin
SATURDAY, JANUARY 15, 2022

TENORS & DIVAS

Teatro Lirico D'Europa
SATURDAY, JANUARY 29, 2022

RIGOLETTO

Teatro Lirico D'Europa
FRIDAY, FEBRUARY 4, 2022

RUSSIAN NATIONAL ORCHESTRA

Alexander Malofeev, piano
FRIDAY, FEBRUARY 11, 2022

SIBERIAN VIRTUOSI

State Ensemble of the Republic of Sakha
SUNDAY, MARCH 27, 2022



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FALL EXHIBITS



CHARTING THE CELESTIAL LANDSCAPE

OPEN THROUGH OCTOBER 10, 2021
NORTH WING CORRIDOR

The charts seen here are representative of the scientific creativity of the past.

Attempting to grasp the mysteries of the universe, ancient civilizations and cultures have over thousands of years traced the myriad of stars in the heavens into intricate patterns or constellations that represented godly beings, beastly creatures, and a multitude of prominent objects. As these depictions became increasingly important in the daily lives of the observers as time passed, a methodical and scientific approach to observation began to take form. This unique astronomical collection at MOAS was purchased through the Mombello-Russo Art Acquisition Fund. *Image Credit: Alexander Jemieson (1782-1850), Celestial Chart - Andromeda, Perseus, Triangula. Gift of Malcom C. Babb.*



SKULLS: FROM ANCIENT BEASTS TO MODERN GIANTS

OPEN THROUGH OCTOBER 31, 2021
FORD GALLERY

All vertebrate animals have skulls, and the Museum has a nice collection of fossilized skulls from the last ice age, the Mesozoic Era, and currently living animals. Skulls

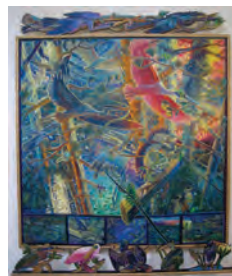
can tell us a great deal of anatomical information, such as how an animal chewed its food, the type of vision the animal had, and whether it was a mammal or a reptile. This biology exhibit will showcase the morphology of mammal and reptile skulls. Visitors can learn how to read a skull by some basic observation. Discover skulls such as ice age cave bear, velociraptor, saber tooth cat, extinct American lion, manatee, coyote, primates, and more. *Image Credit: North American Beaver Skull (Castor Canadensis)*



VISTAS: SEASONAL LANDSCAPES FROM THE COLLECTION

OPENING OCTOBER 23, 2021
THROUGH JANUARY 16, 2022
GARY R. LIBBY ENTRY COURT

A selection of European and American landscapes from the 19th and 20th centuries showcasing prominent painters from the past who excelled in capturing the beauty of Fall, Winter, Spring and Summer in paint. The artists span time and cultures from the Frenchman Jean Baptiste Corot (1796-1875) to the Americans Peter Moran (1841-1915) and Emil Gruppe (1896-1978) and show nature in all its glory through the seasons. *Image Credit: Peter Moran, American, 1841-1914, Cows in a Pasture, 1861. Oil on canvas. Anonymous gift. 97.27.021*



FLORA, FAUNA, AND HIGH COLOR: THE FANTASTIC FLORIDA LANDSCAPES OF MARK MESSERSMITH

OPENING NOVEMBER 6, 2021
THROUGH JANUARY 30, 2022
FORD GALLERY

Mark Messersmith was born in Missouri but has called Florida - particularly, Tallahassee - home for years. One of Florida's

most accomplished painters, his style can only be described as 'fantastic,' not only for its quality but, also, due to his unique style based on high-keyed, almost fluorescent color combined with densely-packed, dynamic images of the Florida backwoods like you have never seen them before.

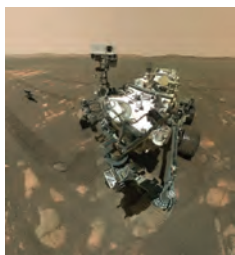
These paintings explore themes of spirit and struggle within our modern world's "natural environments" as plants and animals jostle to survive in small isolated natural habitats as they feel the encroachment of their inevitable forced migration, dislocation, or isolation. *Image Credit: Mark Messersmith, The Lost Garden. Oil on canvas with carved wooden top and bottom parts. 2021. Courtesy of the artist.*



FARM LIFE AND OTHER SCENES: THE ART OF HENRY GEORGE KELLER FROM THE COLLECTION

OPENING OCTOBER 16, 2021
THROUGH JANUARY 30, 2022
NORTH WING CORRIDOR

A native of Cleveland, Ohio, Henry George Keller (1869-1949) studied at prominent art schools in Germany before returning to the states where he attended the Art Students' League in New York and Cincinnati School of Art in the early 1900s. He worked as a lithographer to finance his art education and joined the teaching staff at Cleveland School of Art where he served until 1945. Skilled in watercolor, pencil drawing, lithography and etching, Keller represents a generation of American artists who shunned Modernism and preferred subject matter, styles and techniques of the Old Masters as he rendered his early 20th century views of Midwestern America. *Image Credit: Henry George Keller, American, 1870-1949, Morning in the Stable. Etching. In memory of Leona E. Prasse, donated by Mr. & Mrs. Prasse Bitte. 92.05.007*



DARE MIGHTY THINGS: EXPLORING MARS WITH PERSEVERANCE

OPEN THROUGH NOVEMBER 7, 2021
KARSHAN CENTER FOR GRAPHIC ART

NASA's Mars 2020 mission has brought another rover down to the surface of the Red Planet — this time known as Perseverance.

The Perseverance rover may help us

answer if life ever arose on Mars as it allows scientists to search for signs of ancient microbes in a river delta within the 28-mile wide Jezero Crater. To celebrate the mission's achievements thus far, the exhibit highlights a collection of high resolution images captured by the rover as it remotely explores the planet. Dramatic views from Perseverance's harrowing landing, beautiful panoramas of the Martian surface, closeup shots of geologic points of interest, and photos of the Ingenuity Helicopter drone in flight during its technology demonstration, is on display to emphasize our continued drive to understand Mars. This spirit of exploration is captured in the mission's slogan: Dare Mighty Things. *Image Credit: NASA/JPL-Caltech/MSSS*



ARTFUL BOOKS 2021

OPEN NOVEMBER 13, 2021
THROUGH JANUARY 16, 2022
KARSHAN CENTER FOR GRAPHIC ART

Including works by some of Florida's best contemporary artists, this exhibition contains fascinating and widely creative examples of books as sculptures. The first Artful Book exhibition, curated by independent Miami-based curator Barbara Young, took place in November of 2019 in conjunction with the Miami-Dade Library's famous Book Fair which is one of the most renowned events of its kind in the country. In conjunction with LnS GALLERY, Miami, MOAS is pleased to showcase this unique art form in the celebration of books, literature, fine art and creativity. The objects included may be crafted of the finest leathers and papers or assembled from repurposed materials or books. Often they are made of delightfully unexpected, textured materials and are as varied as their creators. *Image Credit: Jeff Larson, Birds of a Feather, 2019. Archival matte photo paper and Davy Board. 7.5"x 8"x 6.5", open to 7.5"x 24" x 6.5"*



A SYMPHONY OF COLOR: BEAUX ARTS OF CENTRAL FLORIDA

OPENING THROUGH NOVEMBER 28, 2021
L. GALE LEMERAND WING AND ROOT HALL

This exhibition is the fourth installment of the annual Beaux Arts of Central Florida group exhibition at MOAS. Beaux Arts of Central

Florida was founded in 1962 by the students of the late Lillian "Lu" Belmont of New York City. The group is comprised of 50 professional artists, working in all mediums, who place a strong emphasis on experimental creative approaches brought to quality design conception and techniques. The artists are encouraged to expand their horizons and constantly stretch their abilities. *Image Credit: Carson Kapp, Garden of Wisdom, Acrylic*



THE GOLDEN AGE OF GRAPHIC ARTS: FRENCH POSTERS FROM 1890-1930 IN THE COLLECTION

OPENING DECEMBER 4, 2021
THROUGH JANUARY 9, 2022
ROOT HALL

The decades around the turn of the 20th century are often referred to as the "Golden Age" of Graphic Arts. Posters and other mass-produced images used commercially were in high demand as the

Industrial Revolution was in full swing and advertising for products, entertainment and leisure activities joined it. French artists and designers such as Jules Cheret, Henry Meunier, Maurice Dufresne and others created Art Nouveau and Art Deco-inspired graphic designs that have become icons of late 19th/early 20th century style. The Museum of Arts and Sciences has some fine examples of these original designs bridging the eras from the Belle Epoque to the Roaring Twenties and brings them together in a celebration of the heyday of European graphic design. *Image Credit: Henri Privat-Livemont, French, 1861-1936, Absinthe Robette, 1896. Lithograph, Gift of Davidson Gallery. 90.15.001*



AMERICAN EMPIRE

OPEN THROUGH JANUARY 2, 2022
BOUCHELLE CHANGING GALLERY

Upon the establishment of the new Republic in the United States of America, its first citizens adopted much from French neo-classicism to give the new Republic the same dignified appearance they felt it deserved. Sometimes known as "American Federal," the first style adopted by our new country in the early 19th century clearly reflected the great style of the revolution in France. The Museum of Arts & Sciences brings together in this exhibition fine examples of

American Empire furniture, decorative arts, and period paintings from its collection to illustrate the transition from French to American in these works as the artists and craftsmen of the new United States attempted to make the style uniquely American. *Image Credit: Seth Thomas, American, 1785-1859, Shelf Clock, c. 1835. Wood and reverse-painted glass. Gift of Kenneth Worcester Dow and Mary Mohan Dow. 89.16.066*

CURRENTLY ON DISPLAY AT THE CICI AND HYATT BROWN MUSEUM OF ART



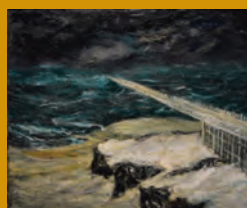
VOLUSIA COUNTY

Scenes from Volusia County and the importance of art schools and art venues in the development of culture within the county. *Featured painting: South Beach Street, Daytona, James Ralph Wilcox, Volusia County*



"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. *Featured Painting: Harper's Weekly, Ft. Pickens 1861*



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*



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*



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. *Featured painting: James F. Hutchinson; Seminole Man, 1992*

MUSEUM NOTICE:

Please note that any of these events are subject to change or cancellation. Please check the event calendar at MOAS.org for the latest updates on these upcoming events.

FALL PROGRAMS

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. \$5.00 for members, \$10.00 for future members.

OCTOBER

Thursday, October 7 2:00pm-3:00pm

Gallery Tour | Dare Mighty Things: Exploring Mars with Perseverance

Take a Martian stroll with Curator of Astronomy, Seth Mayo, as he explores the high-resolution imagery on display that was captured by the Perseverance rover since its Mars landing on February 8, 2021. Seth will explain why this new rover was sent to a dried-up river delta in the Jezero Crater on Mars, the science behind the mission's search for ancient microbial life, the technology demonstration flights of its Ingenuity Helicopter drone, and how this research is preparing the way for future human exploration. Free for members or with paid museum admission.

Saturday, October 9

7:00pm-10:00pm

Second Saturday Laser Rock Concerts

7:00pm Laser Vinyl
8:00pm Laser Beatles
9:00pm Fright Light (Halloween-themed show)
Seating for these concerts is very limited to allow for proper social distancing. Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285.
\$5.00 for one show, \$7.00 for two shows, \$9.00 for three shows.

Tuesday, October 12

2:00pm-3:00pm

Gallery Talk | Dare Mighty Things | Mars Talk

Join Lohman Planetarium Educator and Citizen-Scientist Astronaut Candidate, John Herman, in the Karshan Center of Graphic Art where he will be talking about his experience at the Mars Desert Research Station in Hanksville, Utah. During his tour and presentation, John will be discussing the feasibility of human Martian settlements, commercial space flight, and new research dedicated to agriculture on the Martian and Lunar surfaces.

Free for members or with paid museum admission.

FALL PROGRAMS

Thursday, October 14

11:00am-12:00pm

VIRTUAL LECTURE: Members-Only Coffee with a Curator | The Biggest Eye in the Sky: James Webb Space Telescope

Grab your coffee and join Curator of Astronomy, Seth Mayo, virtually on ZOOM for a deep space look at the upcoming James Webb Space Telescope mission. Slated for launch later this year, this new space-based observatory will be the largest ever sent beyond Earth's atmosphere – almost three times the diameter of the optics of the great Hubble Space Telescope. This new astronomical device provided by the United States, Europe, and Canada, will allow us to see deeper into space than ever before, helping us to study the earliest galaxies, the atmospheres of exoplanets, and gain new insight into the beginning of the universe. Register online at MOAS.org or by calling the Museum at 386-255-0285 ext. 315. Free for members. Must be a MOAS member to attend.

Saturday, October 16

7:00pm-10:00pm

International Observe the Moon Night

Let's celebrate Earth's natural satellite, the Moon, during International Observe the Moon Night outside in the MOAS Entry Courtyard. We will have telescopes set up to observe the Moon and other prominent celestial objects up close, along with live outdoor sky tours held periodically throughout the evening. Also, join us inside the Lohman Planetarium for special shows about the Moon and the night sky.

The outdoor portion of the event is free and is weather permitting. Lohman Planetarium shows are free for members, \$5.00 per show for future members, and free for children 5 and under. Parking is limited. Planetarium shows have limited seating and are first-come, first-served.

Lohman Planetarium Show Schedule

7:00pm Live "The Sky Tonight" Show

8:00pm Moon Exploration and Q&A

9:00pm Our Return to the Moon: A Look at Future Human Exploration

Wednesday, October 20

3:00pm-4:00pm

Meet Me in the Gallery: *Skulls: From Ancient Breasts to Modern Giants*

Join Senior Curator of Education and History, Zach Zacharias, for this last chance tour of the *Skulls* exhibit. The exhibit features a diversity of animals, many of which are from Florida. This amazing exhibit showcases the diversity of life and how animals adapted to niches in their environment. Learn how to identify mammals including reptiles, carnivores, and herbivores. Free for members or with paid admission.

Thursday, October 21

2:00pm-3:30pm

VIRTUAL Florida Vistas Book Club: *The Lion Tamer's Daughter* by Alyssa Helton

Join us virtually on ZOOM for our next Florida Vistas Book Club meeting where we will be discussing *The Lion Tamer's Daughter* by Alyssa Helton. Fluff piece' newspaper writer, Michael Tallen is told by his boss, Katz, that his next assignment is to pen the biography of a saucy, elderly woman named Ruth. During their first encounter he is hesitant but the more he hears of her life growing up in the circus during the 1930s and the enthralling people she knew the more

interested he becomes. After he agrees to write her book and begins interviewing her on a regular basis, Michael soon realizes there is more to the two of them meeting than mere coincidence. Wiley Ruth has a secret agenda. Advanced RSVP for this program is required by registering online at MOAS.org or by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

Thursday, October 21

2:00pm-3:00pm

Gallery Tour | *Dare Mighty Things* | The Science of Martian Soil with Exolith Operations Manager, Konrad Krol

Join us in the Karshan Center of Graphic Art as University of Central Florida's Exolith Lab Operations Manager, Konrad Krol, discusses the science behind the soil, or regolith, on Mars as NASA's Perseverance rover explores the surface. Konrad will provide context for why Perseverance was sent to a dried-up river delta inside the Jezero Crater, and how the simulated Martian dust developed in their lab helps scientists and engineers prepare for these planetary missions. The Exolith Lab provided MOAS with the Martian regolith simulant for the 3D printed Mars Ingenuity Helicopter on display, and this non-profit organization is funded by the Center for Lunar & Asteroid Surface Science (CLASS) at UCF. Free for members or with paid museum admission.

Thursday, October 21

5:30pm-7:30pm

Wine Tasting: Expanding Your Horizons

Join us at the Cici and Hyatt Brown Museum of Art for our quarterly wine tasting with S.R. Perrott. Spend the evening among friends while you sip up knowledge on swirling, tasting, and describing wine while enjoying different pairings of light appetizers from Ravish Catering. Learn about delicious alternatives to the wines you already know and love. Expand your horizons around the globe by trying six new wines. Seating is limited and advanced registration is required by visiting MOAS.org or calling the Museum at 386-255-0285. No refunds after October 15. \$30.00 for members, \$40.00 for future members.

Saturday, October 23

10:00am-2:00pm

MOAS American Muscle Car Show

The muscle car is one of the most significant innovations ever created by American vehicle manufacturers. Throughout their over 70-year history, starting in the late 1940s and continuing into today, muscle cars have cemented their place as a central piece of American culture. Join us in the front parking lot at the Museum of Arts & Sciences for an amazing display of American Muscle in the form of vintage cars and trucks. DJ Frank Roberts will be spinning music from the 50s and 60s while you hob knob among some of America's greatest road machines. Muscle Car Show is free to the public. Museum entry is standard pricing.

Monday, October 25

5:00pm-7:00pm

MOAS After Hours: In Partnership with The Locals Mix

Join us at the Museum of Arts & Sciences for exclusive after-hours access to all galleries, happy hour drink specials, and live music by CHVXA (May Tatro) and DJ Jukebox Bully, in partnership with The Locals Mix. Guests can also enjoy one of the final tours of the *Skulls: From Ancient Beasts to Modern Giants* exhibit with Senior Curator of Education and History, Zach Zacharias. Learn about skulls such as ice age cave bears, velociraptors, saber-toothed cats, extinct American lions, manatees, coyotes, primates, and more. Advanced RSVP is encouraged by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

Thursday, October 28

2:00pm-3:00pm

Gallery Tour | *Dare Mighty Things* | The Fascinating Geology of Mars with Derek Demeter

Join us in the Karshan Center of Graphic Art as Derek Demeter, Director of the Emil Buehler Planetarium at Seminole State College in Sanford, FL, takes you on a tour through the images of the *Dare Mighty Things* exhibit. With Mr. Demeter's extensive experience in geology and planetary science, he will provide a comprehensive look at how NASA's Perseverance rover is studying the ancient history of Mars as it searches for past signs of microbial life. Mr. Demeter will provide his first hand accounts of his own rock and fossil hunting adventures, and how these experiences have helped him to understand planetary formation and the potential for life on other worlds. Free for members or with paid museum admission.

Friday, October 29

2:00pm-3:00pm

Porch Talk at Gamble Place: Civil War Forts in Florida

Join Senior Curator of Education and History, Zach Zacharias, at Gamble Place in Port Orange and learn about important Civil War forts that dominated part of the state's coastal defense system in the 19th Century. From Fort Clinch at Amelia Island to Fort Pickens in Pensacola, these forts stand today as National and State Parks as a reminder of a difficult time in America's history. Space for this talk is limited and advanced registration is required by calling the Museum at 386-255-0285.

Free for members or \$5.00 for future members.

Saturday, October 30

3:00pm-4:00pm

Gallery Tour & Presentation | *Dare Mighty Things* | Digging into Mars! with ERAU's Dr. Jason Aufdenberg

Join Dr. Jason Aufdenberg, Embry-Riddle Aeronautical University Associate Professor of Physics and Astronomy, for a special Mars presentation in the Root Family Auditorium and a tour with the *Dare Mighty Things* exhibit on display in the Karshan Center of Graphic Art. Dr. Aufdenberg will provide his expertise on planetary exploration as he discusses the different process that shaped the surface of Mars, and what science the sample return program from Perseverance may yield. Free for members or with paid museum admission.

NOVEMBER

Wednesday, November 3
3:00pm-4:00pm

Cuban Paintings with Senior Curator of Education and History, Zach Zacharias, and Cuban Gallery Specialist, Juan Junco

With all the recent developments between the United States and Cuba, the island nation once again has moved to the forefront of our foreign policy. Join Cuban Gallery Specialist, Juan Junco, and Senior Curator of Education and History, Zach Zacharias at the Museum of Arts & Sciences and discover the amazing history and culture of Cuba through the collection of art and other related artifacts on display. Free to members or with paid admission.

Saturday, November 6

3:00pm-4:00pm

Gallery Tour | Dare Mighty Things: Exploring Mars with Perseverance

In the final gallery tour of the exhibit, Curator of Astronomy, Seth Mayo, will explore the high-resolution imagery on display that was captured by the Perseverance rover since its Mars landing on February 18, 2021. Seth will explain why this new rover was sent to a dried-up river delta in the Jezero Crater on Mars, the science behind the mission's search for ancient microbial life, the technology demonstration flights of its Ingenuity Helicopter drone, and how this research is preparing the way for future human exploration. Free for members or with paid museum admission.

Tuesday, November 9

3:00pm-3:45pm

Special Lohman Planetarium Show: Sonification of Space

Join us in the Lohman Planetarium at MOAS as we infuse mind-bending sound and beautiful astronomical imagery together for an immersive celestial experience. Using content from NASA's "Data Sonification" project, which converted various space telescope images into an auditory format, we will gain a unique perspective of the universe using multiple sensory methods. You will get to "hear" the visual data from objects like the Whirlpool Galaxy, Cat's Eye Nebula, Supernova 1987A, and even our own Milky Way's galactic center. Along the auditory journey, we will explore the insight we have gained from studying these celestial objects, and how the combination of art and science can enable a greater understanding of the universe. Seating is limited. Admission may be purchased in advance by calling the Museum at 386-255-0285. Free for members or with paid museum admission.

Wednesday, November 10

12:00pm-1:30pm

Lunch and Learn: Meet the Paintings | Scavenger Hunt Up Close and Personal

Join Senior Curator of Education and History, Zach Zacharias, and Master Landscape Artist, Arnold Desmarais, at the Cici and Hyatt Brown Museum of Art for an interactive journey to discover the many aspects of the Florida landscape during the 19th and early 20th centuries. Browse the galleries to look for clues throughout the paintings and return as a group for an in-depth discussion. Call the Museum at 386-255-0285 to RSVP and place your lunch order. Space is limited and advanced RSVP is required. Lecture is free plus \$10.00 boxed lunch for members and is \$5.00 plus \$10.00 boxed lunch for future members.

Thursday, November 11

11:00am-12:00pm

MOAS Member-Only Coffee with a Curator | Unusual Tales of the Everglades

Grab a coffee and join MOAS Senior Curator of Education and History, Zach Zacharias in the Education Room at the Cici and Hyatt Brown Museum of Art to hear about unusual stories from life in the Everglades from the last 150 years. This talk includes information on the building of the Tamiami Trail, invention of the airboat, the 122-year-old hermit of Panther Key, the Cities of Flamingo and Chokoluski, and Al Capone's Florida hideout. Register online at MOAS.org or by calling the Museum at 386-255-0285 ext. 315. Free for members. Must be a MOAS member to attend.

Friday, November 12

8:00pm-10:00pm

Bonkerz Comedy Night

Join us in the Root Family Auditorium at the Museum of Arts & Sciences for a fun night with Bonkerz Comedy Club, featuring comedian Ken Miller, winner of Steve Harvey's Standup Spotlight Comedy Competition and host of Real Laughs on Real Radio 104.1, with Dewayne Williams. Learn more about this comedian at MOAS.org. This comedy show is recommended for those ages 18 and older. Seating is limited and advanced RSVP is strongly encouraged by visiting MOAS.org or by calling the Museum at 386-255-0285. \$10.00 for members, \$12.00 for future members.

Saturday, November 13

3:00pm-4:00pm

An Afternoon with Florida History | Volusia County Postcard History

Join Senior Curator of Education and History, Zach Zacharias in the Root Family Auditorium to learn about local history through the vintage travel postcards of Volusia County. From Cassadaga and DeLand to Daytona Beach and more, we will take a trip back in time looking at local landmarks, architecture, and natural history. Vintage postcards are a great way to discover the wonderful images that have made our home unique. Free for members, \$7.00 for future members, or included with paid museum admission.

Saturday, November 13

7:00pm-10:00pm

Second Saturday Laser Rock Concerts

7:00pm Hypnotica
8:00pm Pink Floyd – The Dark Side of the Moon
9:00pm Laser Queen
Seating for these concerts is very limited to allow for proper social distancing. Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285. \$5.00 for one show, \$7.00 for two shows, \$9.00 for three shows.

Tuesday, November 16

5:30pm-7:30pm

Cocktails & Creations: Fall Flowers & Foliage with Simply Roses Florist

Join us in the Courtyard at the Cici and Hyatt Brown Museum of Art for a creative and interactive Cocktails & Creations class with Ashlee Roberson, owner of Simply Roses Florist. Admission includes all supplies and florals to create a beautiful fall-themed arrangement to bring home with you, plus one complimentary cocktail! This event is for ages 21 and older. Seating is limited and advanced RSVP is required by visiting MOAS.org or by calling the Museum at 386-255-0285. \$30.00 for members, \$35.00 for future members.

Thursday, November 18

2:00pm-3:30pm

VIRTUAL Florida Vistas Book Club: Florida by Lauren Groff

Join us virtually on ZOOM for our next Florida Vistas Book Club meeting where we will be discussing *Florida* by Lauren Groff. In her thrilling new book, Lauren Groff brings the readers into a physical world that is at once domestic and wild - a place where the hazards of the natural world lie waiting to pounce, yet the greatest threats and mysteries are still of an emotional, psychological nature. A family retreat can be derailed by a prowling panther, or by a sexual secret. Among those navigating this place are a resourceful pair of abandoned sisters; a lonely boy, grown up; a restless, childless couple; a searching, homeless woman; and an unforgettable, recurring character - a steely and conflicted wife and mother. Advanced RSVP for this program is required by registering online at MOAS.org or by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

Friday, November 19

2:00pm-3:00pm

Porch Talk at Gamble Place: Florida Becomes a Territory

Florida was fought over by European powers since 1565 and eventually became a territory in 1821. This once sparsely populated peninsula will eventually become the 27th state. Join Senior Curator of Education and History, Zach Zacharias, at Gamble Place in Port Orange to learn about the history of Florida during its transitional territorial period from 1821-1845. Space is limited and advanced registration is required by calling the Museum at 386-255-0285. Free for members or \$5.00 for future members.

Saturday, November 20

3:00pm-3:45pm

Special Lohman Planetarium Show: Sonification of Space

Join us in the Lohman Planetarium at MOAS as we infuse mind-bending sound and beautiful astronomical imagery together for an immersive celestial experience. Using content from NASA's "Data Sonification" project, which converted various space telescope images into an auditory format, we will gain a unique perspective of the universe using multiple sensory methods. You will get to "hear" the visual data from objects like the Whirlpool Galaxy, Cat's Eye Nebula, Supernova 1987A, and even our own Milky Way's galactic center. Along the auditory journey, we will explore the insight we have gained from studying these celestial objects, and how the combination of art and science can enable a greater understanding of the universe. Seating is limited.

FALL PROGRAMS

Admission may be purchased in advance by calling the Museum at 386-255-0285. Free for members or with paid museum admission.

Monday, November 29

5:00pm-7:00pm

MOAS After Hours: In Partnership with The Locals Mix

Join us at the Museum of Arts & Sciences for exclusive after-hours access to all galleries, happy hour drink specials, and live music by Sweetwater and the Travelers, as well as DJ Jukebox Bully, in partnership with The Locals Mix. Enjoy a gallery talk by Mark Messersmith on his new exhibition, *Flora, Fauna, and High Color: The Fantastic Florida Landscapes of Mark Messersmith*. Learn about his brilliant, jewel-toned paintings addressing the plight of Florida's natural interiors as they contend with climate change and the encroachment of humans on their habitats. One of Florida's most accomplished painters, Messersmith's style can only be described as 'fantastic,' not only for its quality but, also, due to his unique style based on high-keyed, almost fluorescent color combined with densely-packed, dynamic images of Florida backwoods like you have never seen them before. Advanced RSVP is encouraged by calling the Museum at 386-255-0285.

Free for members, \$5.00 for future members.

DECEMBER

Monday, December 6

5:30pm-7:30pm

2021 MOAS Annual Meeting

Join us at the Museum of Arts & Sciences for the Museum's annual meeting and installation of the MOAS officers and trustees. Plated hors d'oeuvres will be served and business attire is requested. Advanced registration is required by purchasing admission online at MOAS.org or by calling the Museum at 386-255-0285. RSVP by December 1. \$25.00 per person.

Wednesday, December 8

3:00pm-4:00pm

The Blue Hour Illustrated Art

Join master landscape artist, Arnold Desmarais, in the Root Family Auditorium at MOAS, as he explains "The Blue Hour," the magical period of twilight as told through his new series of oil paintings showcasing this magical phenomenon. Simply defined, twilight is the time of day between daylight and darkness, which creates diffused light in the most spectacular hues of pinks, oranges, reds, yellows, lavenders, and blues. Arnold will walk you through his new series on a picturesque journey of the creative process that enables him to tell his story of the painting through this study of the heavenly skies. Free for members or with paid museum admission.

Thursday, December 9

11:00am-12:00pm

VIRTUAL LECTURE: MOAS Member-Only Coffee with a Curator | The Fantastic World of Mark Messersmith and Artful Books 2021

Grab your coffee and join Chief Curator/Gary R. Libby Curator of Art, Ruth Grim, virtually on ZOOM for a presentation of the works featured in the exhibit *Flora, Fauna and High Color: The Fantastic Florida Landscapes of Mark Messersmith* and the exhibit *Artful Books 2021*. Mark Messersmith is one of Florida's most accomplished painters and his style can only be described as 'fantastic,' not only for its quality but also due to his unique style based on high-keyed, almost fluorescent color combined with densely-packed, dynamic images of the Florida backwoods like you have never seen them before as he addresses the plight of Florida's natural interiors threatened by human encroachment. *Artful Books 2021*, curated by Barbara Young, focuses on the interactive sculptures created by some of Miami's most prominent contemporary artists as they pay homage to the literary arts through their own artistic expression. Register online at MOAS.org or by calling the Museum at 386-255-0285 ext. 315.

Free for MOAS members. Must be a MOAS member to attend.

Friday, December 10

6:30pm-10:00pm

Winter Sky Festival

Enjoy the splendor of the night sky as we host a star party in our MOAS Entry Courtyard, highlighting the upcoming winter celestial objects that are in view. We will have a wide variety of telescopes set up outside to observe the crescent Moon, Venus, Saturn, Jupiter, Pleiades, the Orion Nebula, and much more. Throughout the evening we will be performing live outdoor sky tours with green laser pointers, and there will be astronomy programs and a holiday-themed laser show held inside the Lohman Planetarium.

The outdoor portion of the event is free to the public and weather permitting. Lohman Planetarium shows are free for members, \$5.00 per show for future members, and free to children 5 and under. Parking is limited. You are welcome to bring your own lawn chairs, blankets, binoculars, and telescopes for the outdoor portion of the event. Planetarium shows have limited seating and are first-come, first-served.

Lohman Planetarium Show Schedule

7:00pm Live "The Sky Tonight" Show

8:00pm Sonification of Space

9:00pm Laser Holidays

Saturday, December 11

7:00pm-10:00pm

Second Saturday Laser Rock Concerts

7:00pm Laser Zeppelin

8:00pm Rush 2112

9:00pm Pink Floyd – The Wall

Seating for these concerts is very limited to allow for proper social distancing. Advanced purchase of tickets is recommended by calling the Museum at 386-255-0285.

\$5.00 for one show, \$7.00 for two shows, \$9.00 for three shows.

Wednesday, December 15

6:00pm-7:00pm

VIRTUAL LECTURE: Ask Our Curator of Astronomy

Join MOAS Curator of Astronomy, Seth Mayo, virtually on ZOOM for this audience-guided show that can take you anywhere in the universe that you would like to go! Come with your questions, curiosities, and interests, as we navigate freely through powerful astronomical software. We cannot wait to explore the universe with you! Register online at MOAS.org or by calling the Museum at 386-255-0285.

Free for members, \$7.00 for future members.

Thursday, December 16

2:00pm-3:30pm

VIRTUAL Florida Vistas Book Club: Of Women and Salt by Gabriela Garcia

Join us virtually on ZOOM for our next Florida Vistas Book Club meeting where we will be discussing *Of Women and Salt* by Gabriela Garcia. To learn more about this book visit MOAS.org. Advanced RSVP for this program is required by registering online at MOAS.org or by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

Thursday, December 16

6:00pm-8:00pm

Jingle & Mingle: MOAS Member Holiday Social

MOAS invites all of its members to celebrate the holidays at the Museum with exclusive after-hours access to all galleries, food trucks, holiday specialty cocktails, live music, and door prizes! Finish up your holiday shopping with unique gifts from local indie artists and artisans, a wine tasting and sales station with a Sommelier from S.R. Perrott, and discounts and offers from the Museum Store. Come dressed in your most festive holiday attire! Tickets are limited and advanced RSVPs are required by visiting MOAS.org or by calling 386-255-0285.

\$5.00 for members. MOAS members may bring one guest for an additional \$5.00.

Monday, December 27

5:00pm-7:00pm

MOAS After Hours: In Partnership with The Locals Mix

Join us at the Museum of Arts & Sciences for exclusive after-hours access to all galleries, happy hour drink specials, and live music by Michael Stilwell and Susie Parks with Dash of Time, as well as DJ Jukebox Bully, in partnership with The Locals Mix. Join Barbara Young, the curator of the exhibition, *Artful Books 2021*, for a gallery talk focused on the inventive sculptures created by some of Miami's most prominent contemporary artists as they pay homage to the literary arts through their own expression. Advanced RSVP is encouraged by calling the Museum at 386-255-0285.

Free for members, \$5.00 for future members.

BRENDA
Volunteer since 2003
From Ormond Beach, FL



CHILDHOOD FUN!

One of Brenda's favorite gifts in the MOAS Store are the mood rings! Hatch your own turtle egg, dig for fossils, or walk around in style with a new snap bracelet!

FOR THE ART & HISTORY LOVER

Joelle is a lover of art prints, especially those that feature pieces from the Cuban Museum at MOAS. Choose from a collection of art and history gifts from the Museum Store!



JOELLE
Volunteer since 2019
From France

MOAS 2021

HOLIDAY GIFT

Holiday gift recommen

AFTERNOON SNACKS & COFFEE MUGS

Chong loves the coffee mugs sold in the MOAS Store which feature some signature locations at the Museum. Create a cozy gift basket with a new coffee mug and an afternoon snack!



LOU
Volunteer since 2007
From Daytona Beach, FL



FOR THE BOOK LOVERS

Lou's love of local authors prompts her recommendation of the many books we have for sale by several local authors, ranging from cookbooks and local history to children's stories!

Classic Cooking
with
Coca-Cola
ORIGINAL
CARBON
FUELS
NUCLEON
PHOSPH

Florida Forts: On The
Edge of Empire
J. Zach Zacharias

**ROOT FAMILY
MUSEUM**

**FLY-IN
FOX
TALES**
by
Marian Strong Tomblin

oliday T GUIDE

ndations from our MOAS Store volunteers!

EXPLORE THE UNIVERSE

A love of constellations and exploration of the night sky has Wayne recommending one of our night sky activity books or model kits - a perfect gift for your child to explore the universe!



WAYNE
Volunteer since 2017
From New Jersey

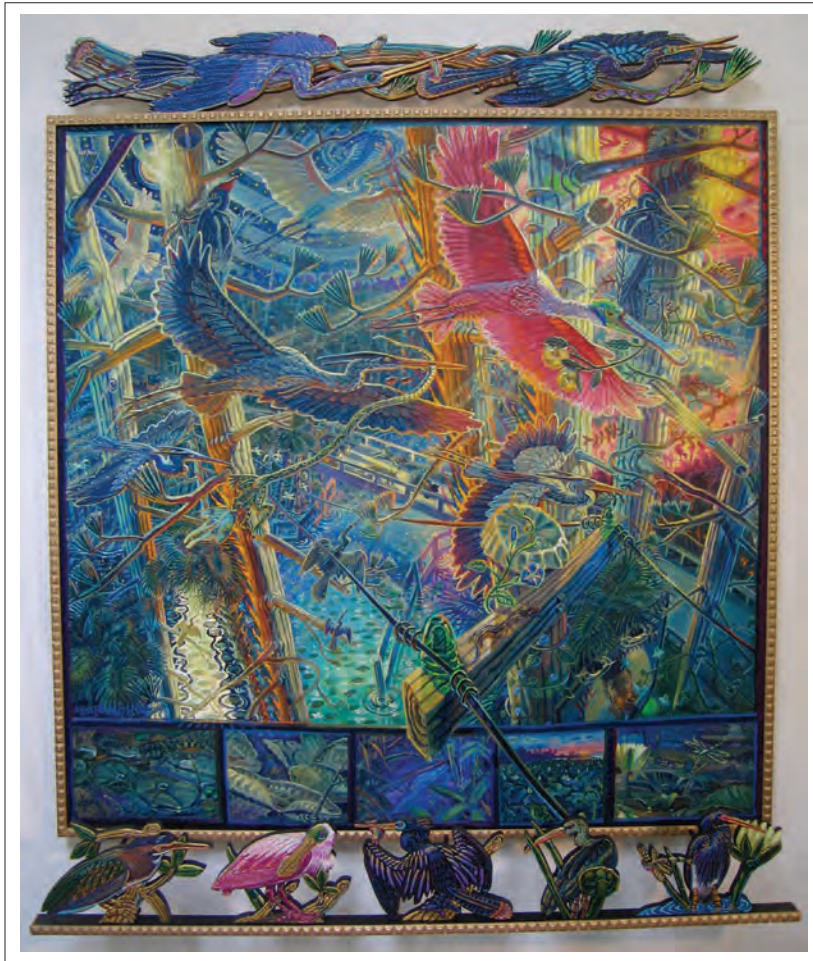
**Constellations
Activity Book**
by Ryan Jacobson and Elena Kitchin

CHONG
Volunteer since 2015
From South Korea



SPOTLIGHT ON EXHIBITIONS

New Exhibits in Fall 2021 at MOAS



Mark Messersmith, *The Lost Garden*, 2021, 67 x 78
oil on canvas with carved wooden top and bottom parts. Courtesy of the artist.

FLORA, FAUNA AND HIGH COLOR: THE FANTASTIC FLORIDA LANDSCAPES OF MARK MESSERSMITH

On Display November 6, 2021 through January 31, 2022

Originally from the Midwest, Mark Messersmith has called North Florida home for many years. Immediately fascinated by the still dense and wild interiors of his adopted state, he has followed in the footsteps of the great 19th Century Northeastern landscape artists such as Martin Johnson Heade, George Inness, Thomas Moran, and Winslow Homer as they encountered what they perceived as an exotic tropical Eden. Even over 125 years ago these artists began to see the march of human progress encroaching on this wild, untamed land and they hoped to record it for posterity. Now in the 21st century, Mark Messersmith paints natural Florida in high-keyed

jewel-like colors, with hand-carved predellas and objects rimming the frames of the works, with an eye towards capturing the stunning beauty to be found here and, at the same time, to sound an alarm over all that is about to be lost if we don't wake up and pay attention. Native Florida, with its unique semi-tropical flora and fauna and crystal-clear natural springs, is under attack as more and more people move in and greenhouse gases heat up the planet. In Mark's own words:

"My work builds on stories (either real or conjectured), as well as my observations and concerns for wild creatures that move within the shrinking natural environments of the Southeastern United States. Places where the creatures move between and over one another, trying to survive the persistent pressure and chaos of our human self-concerned lives within the darkening illumination of their fading wilderness."

Even in 2021, powerful birds, vigilant panthers, wary gators, audacious bears, old cypress trees, still survive just beyond the highway's edge, just behind the citrus stands and strip malls, all trying to avoid the careening logging trucks. The work is not so much an indictment of hunting and the clear-cutting of the forests



Jeff Larson, *Birds of a Feather*, 2019. Archival matte photo paper and Davy Board. 7.5"x8"x6.5", open to 7.5"x24"x6.5"

or the carnage of the animals on our backroads and highways, but more of a prompt to perhaps steer we human "sinners" from our current road towards perdition, and back onto a path of righteous stewardship of the natural environment.

The work is really about a world midway between hope and despair."

With his unique vision, style, and approach to painting, as well as his hand-carved frame additions, Mark Messersmith's work stands alone. He has accumulated numerous awards for his work, has been shown nationwide, and is in many of the most important public and private collections in the country. The Museum of Arts & Sciences is proud to bring a selection of his most recent works to Daytona Beach in this major exhibition by a major Florida talent.

ARTFUL BOOKS 2021

*On Display November 13, 2021
through January 16, 2022*

Drawing inspiration from the longstanding tradition of the famous Miami Book Fair which has taken place every November in Miami since the 1980s, this exhibition is curated by Independent Curator Barbara Young and includes works by some of Florida's best contemporary artists who have created fascinating and widely inventive examples of books as sculptures. Originally conceived in conjunction with LnS GALLERY, Miami, the Museum of Arts &

Sciences is pleased to present a new iteration of The Artful Book which highlights the exceptional creativity of artists who have paid homage to the literary arts through their own visual medium.

These works are, as Barbara Young describes them:

"Amazingly diverse in their form and content, they may be crafted of the finest leathers and papers or assembled from repurposed materials or books. In content, they are as varied as their creators and may be made of delightfully unexpected textured materials. Sometimes they are unique objects. At other times artists' books are produced in editions. In multiples, like zines, they are a practical, inexpensive, and portable means to reach a wide audience. Some artists create these book-like works exclusively. Other artists may be more recognized for their work in other media – painting, sculpture, printmaking, photography, video art, and more. What the artists who make books have in common is a love for the physical quality, intimacy, and magic of traditional books, which has led them to use the book format to express their individual concepts."
LnS Gallery Journal, Volume II, November 2019

In combining literature and the visual arts, this exhibition is a celebration of artistic and intellectual excellence in its many forms. The Museum of Arts & Sciences is proud to be a part of this artistic/literary effort by contemporary artists who push the boundaries of what we think of as "art" and open our eyes to new ways of imagining stories, on the printed page or otherwise.



Have Fun While Supporting MOAS

Join Our MOAS Guild Today!

Would you like to join an enthusiastic group of men and women who have fun and support our museum? We have a deal for you! Membership is \$40 a year and we are now accepting members for the 2022 year. Please call Sherry Erbe at 386-679-8534 and she will answer all your questions. If you are interested in any of our committees please call me and I will be happy to answer any questions. We meet at the Cici and Hyatt Brown Museum the second Tuesday of each month at 10am with a social, an informative meeting, and sometimes a guest speaker. We are always looking for new members who want to support our wonderful museum.

Please don't forget to check out our 11th annual golf tournament on October 15th at Venetian Bay Golf Club in New Smyrna Beach. Proceeds benefit our children's museum.

It's that time of year again when we take over Beach Street in Daytona Beach for our 59th annual Halifax Art Festival on November 6th and 7th. We have over 200 artists attend, several of them from out of state. What a great way to spend the day and maybe purchase something from our talented artists. Come and enjoy walking our beautiful Beach Street with family and friends. One way you can help is by becoming a Patron for as little as \$100 to attend our Patron Retreat the two days at the festival. Call Sherry Erbe at 386-679-8534 and she will have all the details.

I hope you will consider joining the MOAS Guild.

Diane Rogers, President
386-871-8177

IMPORTANT DATES TO REMEMBER

**Guild Meeting at the
Cici and Hyatt Brown
Museum of Art**
Tuesday, October 12, 2021
at 10am

**Children's Golf Classic
at Venetian Bay Golf Club**
Friday, October 15, 2021

**Halifax Art Festival
on Beach Street**
Saturday, November 6, 2021
Sunday, November 7, 2021

**Guild Meeting at the
Cici and Hyatt Brown
Museum of Art**
Tuesday, November 9, 2021
at 10am

**Holiday Party
Guild Members Only**
Tuesday, December 14, 2021

November 6 & 7
Downtown Daytona Beach

THE GUILD OF THE MUSEUM OF ARTS & SCIENCES presents



HALIFAX ART FESTIVAL

SATURDAY, NOVEMBER 6 - 9AM TO 5PM
SUNDAY, NOVEMBER 7 - 10AM TO 4PM



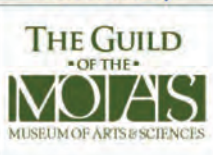
Artist Credit: Rosa Chavez, "Regatta Annapolis"

On Beach Street from Orange Avenue to
International Speedway Blvd., Magnolia Ave.
and NEW this year on City Island!

Directly benefiting



Presented by



www.HalifaxArtFestival.org



HALIFAX ART FESTIVAL

Support YOUR MOAS Guild for
The Halifax Art Festival

Become a PATRON

Make a donation of \$100 - \$1000 (or more)

AND GET

- 1/2 of your donation back in Patron Dollars to spend at the HAF
- An invitation to three (3) **Patron Parties**
- The use of a **Patron Retreat** during the HAF that includes:
 - An indoor **BATHROOM**
 - A place to relax and get cooled off
 - Snacks · Soft Drinks · Wine

COUNT ME IN AS A PATRON FOR THE 2021 HALIFAX ART FESTIVAL

Name _____

Address _____

Email Address _____

Telephone _____

Amount (\$100 Minimum) _____

Artful Supporter Amount _____

Send to: Halifax Art Festival Patron Chair, Sherry Erbe at jobe896@aol.com

THE GUILD
OF THE
MOAS
MUSEUM OF ARTS & SCIENCES

**Join the Guild for an enjoyable
way to support the Museum!**

**The Guild is a dynamic group who enjoy
fellowship and a feeling of community.**

We invite you to attend our free meetings the
second Tuesday of every month at the
Cici and Hyatt Brown Museum of Art.

For more info contact
Sherry Erbe at jobe896@aol.com

1971

A YEAR OF
MOAS
AND SPACE

THIS ARTIST'S IMPRESSION DEPICTS 51 PEGASI B—THE FIRST EXOPLANET DISCOVERED AROUND A MAIN SEQUENCE STAR. THIS EXOPLANET IS ABOUT 50 LIGHT-YEARS AWAY, AND IF YOU TUNED A RADIO ON THIS PLANET TODAY, YOU WOULD RECEIVE SIGNALS FROM EARTH IN 1971. 51 PEGASI IS KNOWN AS A HOT JUPITER, AS IT HAS VERY HIGH TEMPERATURES AND IS A LARGE GAS PLANET, ORBITING AROUND ITS HOST STAR IN ONLY FOUR EARTH DAYS. IMAGE CREDIT: ESO/M. KORNMESSER/NICK RISINGER (SKYSURVEY.ORG)

Daytona Arts Museum Backers Plan Final Drive Monday



AN ORLANDO SENTINEL NEWSPAPER ARTICLE FROM 1969 DEPICTS THE PROPOSED MOAS CAMPUS THAT WOULD EVENTUALLY OPEN ON JULY 25, 1971. THE TALLEST POD STRUCTURE IN THE REAR OF THE OTHER BUILDINGS WAS THE ORIGINAL PLANETARIUM FACILITY, WHICH WAS STILL BEING CONSTRUCTED IN 1971, FINALLY OPENING IN OCTOBER OF THE FOLLOWING YEAR. IMAGE CREDIT: ORLANDO SENTINEL

This past year we have been celebrating the 50th anniversary of our MOAS campus on Nova Road in Daytona Beach. This momentous occasion in our institution's history was on July 25, 1971, and at the time, only the museum areas containing a science wing, an art wing, the Tuscawilla Nature Preserve, and offices were being opened for business. The original planetarium, funded in part by the Junior Service League and Volusia County Schools, was still under construction and

slated to be opened the following year. At the time, this was originally called the Museum of Arts & Sciences Planetarium, close to a half century before our more recent and current benefactors, Lowell and Nancy Lohman, bestowed their name upon the facility after their generous contribution to the museum in 2019.

Even though the first planetarium facility—housed in its original 70s style hexagonal pod structure—was still being built, 1971 was a busy year in space.

We highlighted this in the Lohman Planetarium during our 50th anniversary celebration back on July 25th of this year during a special program titled, "That 70s Star Show." This program whisked us back to 1971, as we gazed at the night sky on our MOAS grand opening evening, located interesting stars close to 50 light-years away, provided an overview of significant Mars exploration achievements, and relived the Apollo missions that were underway at the time.

50 YEARS OF LIGHT TRAVEL

A fun exercise in comprehending the vast distances in space is to think about the light travel time between celestial objects.

We did this with our MOAS campus anniversary planetarium show as we located various stars visible to the naked eye approximately 50 light-years away.

The stellar object that fits this bill most closely is known as Delta Aquilae—a binary star system (two stars orbiting around each other) located almost exactly 50 light-years distant from Earth. This means that today, if you spot Delta Aquilae in the middle of the summer constellation of Aquila, the Eagle, you are seeing the light from this binary star system that left it at the time our museum was opening.

Even more thought provoking is the fact that the star known as 51 Pegasi, located in the chest of the winged-horse constellation of Pegasus, is also about the same distance away from us. 51 Pegasi is just barely visible to the naked eye in our night sky, but is one of the most important astronomical objects since it was the first main sequence (Sun-like) star discovered to have an exoplanet around it. If it was possible to see this exoplanet, known as 51 Pegasi b, right now from Earth, you would also be seeing its reflected light that left it 50 years ago.

Conversely, any electromagnetic radiation that traveled from Earth in 1971, including radio waves, is now just reaching this exotic, interstellar world. If you could tune a radio on 51 Pegasi b right now, you might be able to hear songs like Three Dog Night's "Joy to the World," or "I Feel the Earth Move" by Carole King, or maybe "Ain't No Sunshine" from Bill Withers—all top hits of that year on our home planet.

Although, most likely no one would be listening on a planet like 51 Pegasi b, being a massive gas planet orbiting its host star in four days with extreme gravitational tidal forces and temperatures of about 1800 degrees Fahrenheit. But the idea is certainly fun to think about.

THE RACE TO MARS

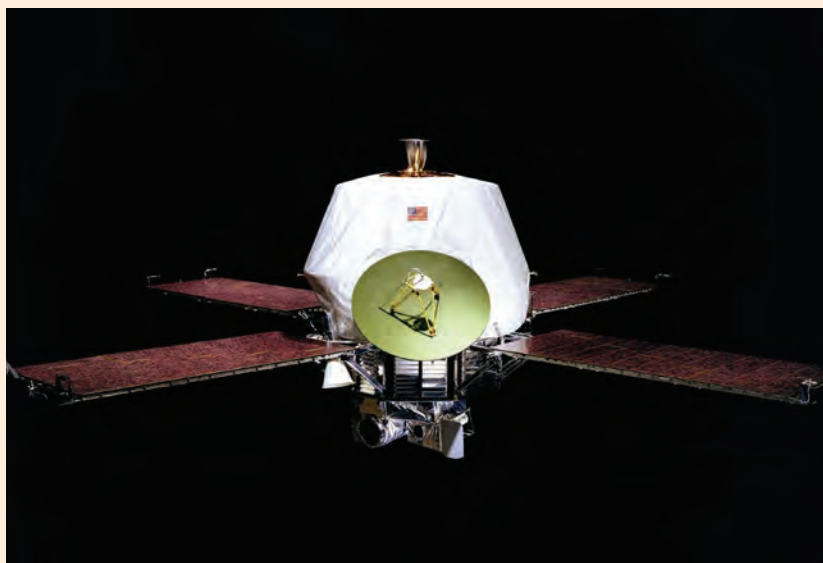
Mars is a hard destination to reach. This was certainly the case back in 1971 when the Soviet Union and the United States were trying to accomplish exploration feats at the Red Planet that had never been achieved before.

That year the Soviet Union was attempting to be the first nation to orbit and land on the planet in their Mars program. Two identical spacecraft, known as Mars 2 and Mars 3, consisted of an orbiter and lander, and were launched on May 19 and May 28 respectively.

Mars 2 got to Mars first in November of 1971, and on its attempt to bring its lander down to the surface, it made an unfortunate crash landing. The Mars 2 orbiter successfully entered into orbit around Mars that month though, and subsequently made 362 trips around the planet until the summer of 1972, taking images and sending back scientific data.

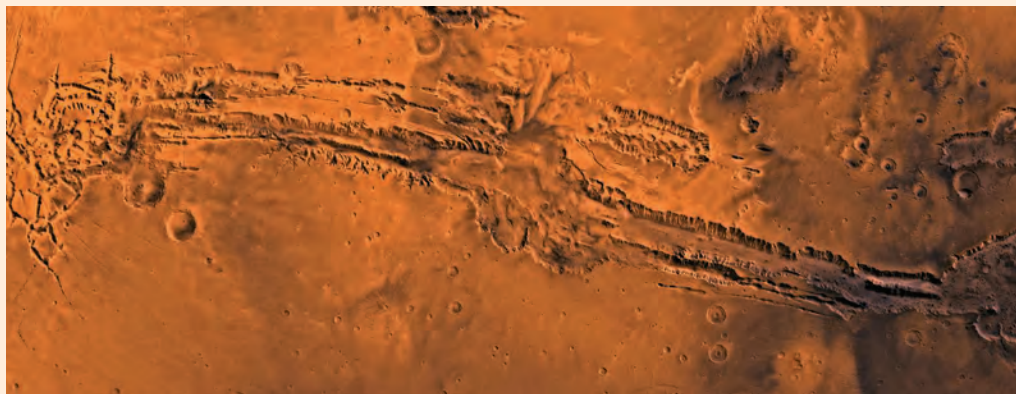
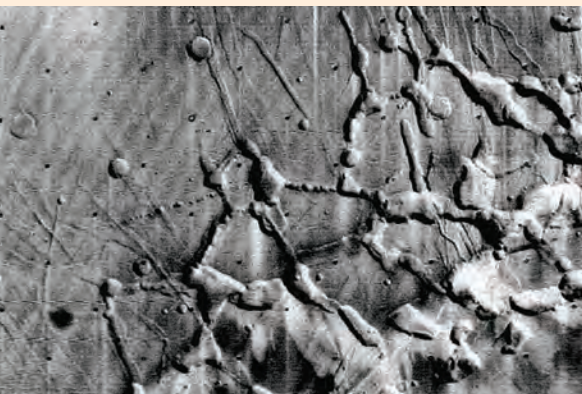


A LARGE PORTION OF THE CONSTELLATION AQUILA, THE EAGLE, IS CAPTURED IN THIS ASTRO PHOTO WITH THE DELTA AQUILAE STAR SYSTEM CIRCLED IN RED. THIS BINARY SYSTEM IS ABOUT 50 LIGHT-YEARS, WHICH MEANS THAT THE LIGHT WE SEE FROM THIS OBJECT LEFT IT THE YEAR OUR MAIN MOAS CAMPUS OPENED. IMAGE CREDIT: J. ALEU/Flickr



THE MARINER 9 SPACECRAFT BECAME THE FIRST HUMAN MADE OBJECT TO BE PLACED IN ORBIT AROUND MARS, OR ANY PLANET IN THE SOLAR SYSTEM, ON NOVEMBER 14, 1971. THIS OCCURRED JUST TWO WEEKS BEFORE THE SOVIET UNION'S MARS 2 SPACECRAFT ATTAINED MARTIAN ORBIT. NASA'S MARINER PROGRAM WAS CONDUCTED BETWEEN 1962 AND 1973, AND WERE A SERIES OF SPACECRAFT LAUNCHED FOR INTERPLANETARY EXPLORATION. IMAGE CREDIT: NASA

Mars 3 arrived at Mars just the following week after the Mars 2 probe. For the Mars 3 lander that was deployed, it went through all the stages of descent and entry, with an eventual soft landing on the Martian surface on December 2, 1971—the first ever spacecraft to accomplish this task. Unfortunately, just 110 seconds after the successful landing occurred, the spacecraft stopped communicating with Soviet controllers on Earth, effectively ending the mission. This was thought to be due to electrical interference from a massive dust storm in the landing zone. The Mars 3 orbiter also successfully achieved orbit, allowing remote study of the planet until the following year.



(LEFT IMAGE) NASA'S MARINER 9 SPACECRAFT HELPED SCIENTISTS GAIN EXTENSIVE INSIGHT INTO THE GEOLOGY OF MARS AS IT SNAPPED THOUSANDS OF PICTURES OF THE SURFACE FROM ORBIT FROM 1971 TO 1972. THIS IMAGE IS ONE OF THE FIRST DETAILED OBSERVATIONS OF THE WESTERN SIDE (NOCTIS LABYRINTHUS) OF A LARGE CANYON ON MARS, KNOWN AS VALLIS MARINERIS. IMAGE CREDIT: NASA

(RIGHT IMAGE) A HIGH RESOLUTION COMPOSITE IMAGE OF THE SOLAR SYSTEM'S LARGEST CANYON ON MARS TAKEN BY THE VIKING ORBITERS IN THE MIDDLE OF THE 1970S. THIS MASSIVE CANYON IS THOUSANDS OF MILES WIDE, AND WOULD CROSS THE ENTIRETY OF THE UNITED STATES FROM END-TO-END. IN HONOR OF THE MARINER 9 SPACECRAFT THAT ACHIEVED THE FIRST INTERPLANETARY ORBIT INSERTION OF MARS IN 1971, THIS GEOLOGIC FEATURE IS NAMED VALLIS MARINERIS. IMAGE CREDIT: NASA/JPL/USGS

Both Mars 2 and Mars 3 landers were equipped with tiny rovers as well, but never were able to deploy them. It took until 1997 when NASA's Sojourner rover was the first vehicle in history to drive on Mars.

During the Soviet Union's push to Mars, the United States and NASA had also set their sights on the planet in the Mariner program.

The Mariner missions began in the 1960s, with a handful of successful flybys of Venus and Mars. NASA also had two identical spacecraft on deck to be launched to Mars in May of 1971, with Mariner 8 and Mariner 9 being solely orbiter platforms.

The U.S. also experienced its own setbacks with missions to Mars just after the launch of Mariner 8 on May 9, when it failed to achieve Earth orbit after the second stage of its Atlas-Centaur launch vehicle tumbled out of control.

But, on May 30, 1971, the Mariner 9 spacecraft successfully launched, traveling just under seven months to reach Mars. On November 14th of that same year, Mariner 9 became the first spacecraft to be placed in orbit around Mars, the first time this had happened for any planet in the Solar System, beating the Soviet Union by just a couple of weeks before their Mars 2 and Mars 3 probes accomplished the same goal.

Mariner 9 spent just under a year studying Mars from orbit, taking more than 7,000 images and

mapping about 85 percent of the Martian surface. The images covered many geologic features of Mars as the spacecraft snapped photos of the Solar System's largest volcano, Olympus Mons, ancient river beds, craters, and the most massive canyon of any neighboring planet.

In honor of the success of Mariner 9, the vast canyon—stretching thousands of miles across Mars—was named after this spacecraft, since then being called Vallis Marineris.

IN THE MIDST OF APOLLO

By 1971, the United States was right in the middle of the Apollo Moon missions. With Apollo 11 through 13 (of course no lunar landing) already completed, the 14 and 15 missions were next on the docket.

The year started with Apollo 14, when Alan Shepard, Stuart Roosa, and Edgar Mitchell launched to the Moon on January 31, 1971.

This was the last of the "H missions," where crews would demonstrate precision landings and perform scientific experiments. The Apollo 14 landing site was also the first to take place in the lunar highlands, a location known as Fra Mauro. This was the original landing site for Apollo 13, which never occurred due to the historic failure enroute, when the Service Module experienced an oxygen tank issue that resulted in an explosion, crippling the mission and forcing the crew to ferry back home to Earth.

In contrast, Apollo 14 ended in completion of the entire mission when it safely splashed down in the South Pacific Ocean on February 9th of that year.

THIS IMAGE WAS TAKEN THE MORNING AFTER THE MOAS CAMPUS OPENED ON NOVA ROAD ON THE MORNING OF JULY 26, 1971, WHEN THE APOLLO 15 SATURN V LAUNCHED INTO SPACE WITH ASTRONAUTS DAVID SCOTT, JAMES IRWIN, AND AL WORDEN ON BOARD. THIS WAS THE START OF THE SECOND APOLLO MISSION OF 1971, AFTER APOLLO 14 WAS SUCCESSFULLY COMPLETED AT THE BEGINNING OF THE YEAR. IMAGE CREDIT: NASA



For Apollo 15, this next lunar mission commenced right after the MOAS campus opened on July 25th. At that time, one could have attended the grand opening of the museum, and then woken up the following morning to witness a 9:34 am launch when astronauts David Scott, James Irwin, and Al Worden rode atop their massive Saturn V rocket that lifted off from the Kennedy Space Center just 48 miles to the south.

The Apollo 15 crew arrived at the Moon just a few days later, with Commander David Scott and Lunar Module Pilot James Irwin landing on Hadley-Appennine region in their Lunar Module Falcon, while Al Worden remained in orbit around the Moon in the Command Module Endeavour.

This was the first of the "J missions," allowing additional time for extensive scientific study of the Moon, on the surface and from orbit.

Apollo 15 was also the first mission to utilize the Lunar Roving Vehicle (LRV), which allowed Scott and Irwin to traverse much longer distances, enabling the crew to study an increased number of interesting locations. In total, the crew drove the LRV more than 17-miles across the lunar surface.

Commander Scott also had the unique opportunity to complete a famous science experiment during an extravehicular activity (EVA) on the Moon to prove Galileo Galilei's theory that all objects in the same gravitational field will fall at the same rate, regardless of their mass. Since the Moon has no air, there is no atmospheric drag, and when Scott dropped a hammer and falcon feather, they hit the lunar surface at the exact same time on camera.

With the completion of the scientific experiments, EVAs, the LRV excursions, a small satellite deployment, and many other accomplishments under their belt, the Apollo 15 crew headed back to Earth, splashing down in the North Pacific Ocean on August 7th.

NASA's Moon program was canceled after Apollo 16 and 17 were completed in 1972, and with it, a change in our nation's direction in space exploration.

APOLLO 15'S LUNAR MODULE PILOT, JAMES IRWIN, IS SEEN HERE SALUTING THE AMERICAN FLAG AT THE HADLEY-APPENNINE LANDING SITE ON THE SURFACE OF THE MOON. THIS MISSION OCCURRED THE FIRST WEEK THE MAIN MOAS CAMPUS WAS OPEN TO THE PUBLIC IN 1971. IMAGE CREDIT: NASA/JSC/RESTORED BY WIKIMEDIA USER: BAMMESK



ASTRONAUT JAMES IRWIN CAN BE SEEN HERE NEXT TO THE LUNAR ROVING VEHICLE (LRV) WITH MOUNT HADLEY IN THE BACKGROUND. APOLLO 15 WAS THE FIRST MISSION TO USE THE LRV TO TRAVERSE MUCH LARGER DISTANCES ON THE LUNAR SURFACE THAN ANY PREVIOUS MISSION, WITH COMMANDER DAVID SCOTT AND IRWIN TRAVELING ABOUT 17 MILES IN TOTAL. IMAGE CREDIT: NASA/DAVID SCOTT

THIS IMAGE STILL FROM A VIDEO TAKEN DURING APOLLO 15 ON THE LUNAR SURFACE SHOWS COMMANDER DAVID SCOTT CONDUCTING A SIMPLE EXPERIMENT IN HONOR OF GALILEO GALILEI. GALILEO THEORIZED THAT ALL OBJECTS, REGARDLESS OF MASS, WILL FALL AT THE SAME RATE IF WITHIN THE SAME GRAVITATIONAL FIELD, AND SCOTT DEMONSTRATED THIS BY DROPPING A HAMMER AND FEATHER IN THE AIRLESS ENVIRONMENT ON THE MOON. BOTH THE HAMMER AND FEATHER HIT THE LUNAR SURFACE AT THE SAME TIME, PROVING AGAIN THAT GALILEO WAS RIGHT. IMAGE CREDIT: NASA



50 YEARS AND BEYOND!

Much more has happened in space since the MOAS grand opening on Nova Road these past 50 years. We saw the Space Shuttle program fly through its 30-year tenure, the launch of the Hubble Space Telescope, the construction of the International Space Station, the beginnings of the commercial space industry, a plethora of robotic spacecraft and landers sent to destinations all throughout the Solar System, the discovery of exoplanet worlds, significant increases in our understanding of astronomy and cosmology, and a renewed drive to land humans on the Moon again with NASA's Artemis program.

Who knows what the future will hold over the next 50 years and beyond:

maybe increased access to space for everyone, landing humans on Mars or other destinations, finding life elsewhere in the universe, unraveling the mysteries of dark energy and dark matter, or something we can't even imagine today.

We hope the Museum of Arts & Sciences can continue to be there along the way to inspire, cultivate curiosity, and promote lifelong learning in art, science, and history for many generations to come.

And keep tabs with us next year in October when we celebrate the 50th anniversary of the Lohman Planetarium. ■



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