

# ARTS & SCIENCES

from the museum of arts & sciences, in association with the smithsonian institution  
spring 2021

INSIDE:  
*Master Artists*  
at MOAS





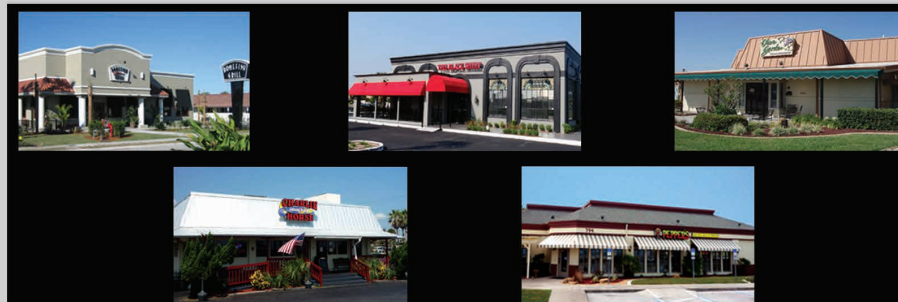
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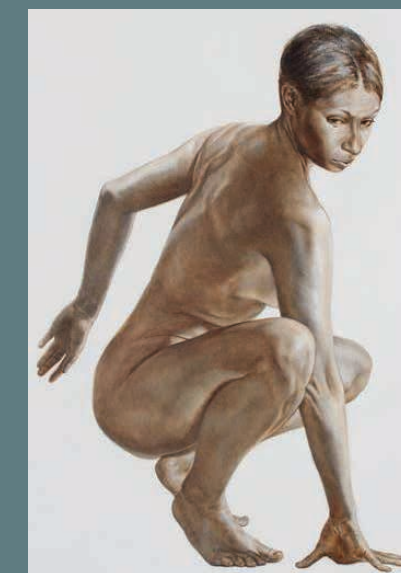
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## ON THE COVER



Dean Mitchell, "Tobacco Barn," 2018, watercolor on paper. Courtesy of the artist.

On display as part of the *Time Honored: The Art of Dean Mitchell* exhibit. Open May 8, 2021 through September 12, 2021



Jill Cannady, "Twist," charcoal and acrylic wash on stretched canvas. Courtesy of the artist.

On display as part of the *Exceptional: The Art of Jill Cannady* exhibit. Open February 20, 2021 through May 2, 2021



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The evening showing of the 40th Asbury Short Film Concert at the Museum of Arts & Sciences.



ANDREW SANDALL

After over a year now of disruption and finding new ways to deliver our programs and services it's great to be writing an introduction to an edition of the magazine that is filling back up with in-person programming.

In the last year, it has been interesting to see how finding new ways to work has taught us some better ways to deliver our programs that we will continue for the foreseeable future. Naturally, we still have to have a 'Plan B' in place with so much uncertainty still around which is why you will continue to see both in-person and online programs in place. However, it's been great to slowly see old friends back in the Museum, while also making lots of new friends all across the country with our online programs. Especially those coming from the staff in the Lohman Planetarium!

I was very proud that we were able to safely hold the 40th Asbury Short Film Concert both in person and virtually back in January. Once again, the organizers brought a fantastic roster of short films with them – many people thought they were the best yet. It was so great to hear their heartfelt thanks for the way we had worked with them to allow them to put the show on for a real, live audience, having had so many of their performances postponed or moved to virtual-only showings during the last 12 months. It was a great reminder of just how much we have diversified

our programming to bring not only the traditional museum programming we were already known for, but to branch out and offer all kinds of fun, educational, and personally enriching experiences to our community.

It is a good time to be thinking about how things have changed at MOAS as we also reflect on what we have learned during the COVID-19 pandemic. We were officially informed a few weeks ago that the process of reaccreditation by the American Alliance of Museums will formally take place in 2022. This is a big deal for all museums like ours as our accredited status is a way of demonstrating that we meet the high level of professional standards expected by our peers when looking to bring in traveling exhibitions or borrow art and artifacts.

Due to a major reevaluation and changes to the accreditation process that were made a few years ago, we were asked if we would wait a couple more years before going through the reaccreditation process. The experience will be very different for us as reviewers will be looking at many different aspects of our work than they have in the past. Our impact on the community will be looked at much more closely now, as the museum industry as a whole reflects on what we are truly in place to offer and how we can help strengthen and grow with the community in which we work. The expectations for museums like ours are certainly very different from when I first started in the industry and have evolved significantly since MOAS (back then the Halifax Children's Museum) first opened its doors to the public.

If the last year has taught me one thing, it is that we have put together a tremendous team here at the Museum, and one that has shown itself to be more than up to the task in the most difficult of circumstances. I have no doubt that no matter what questions are asked of us, the work the staff and Board of Trustees have undertaken these last few years to modernize our role here in the community will be recognized by the accreditation reviewers. I hope you know just how much we have appreciated your support and encouragement as we have worked hard to better become YOUR museum!



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ABOUT THE  
MUSEUM OF ARTS AND SCIENCES

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

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

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

**MUSEUM HOURS:**  
10 a.m. – 5 p.m. Monday through Saturday  
11 a.m. – 5 p.m. Sunday

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

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# THE IMPORTANCE OF SUMMER CAMP

Summertime is just around the corner and the Museum will be conducting its annual Summer Learning Institute (SLI) which has been running for over 40 years. Every summer across the country, millions of children attend summer camp and remember the experiences for a lifetime. The Museum's program is no exception and continues to flourish after many decades of serving our local community. Many of our former students are now grown-up and enrolling their children in SLI so they can also have the same wonderful learning experiences. It amazes me to see the continuing impact that our Museum has on our community and its families.

SLI has grown from its humble roots of just a few offerings to over 30 classes in art, science, and history. These hands-on courses offer subjects not typically available in the public school systems. Paleontology, archaeology, claymation, short movie making, criminology, and photography are just a few of the wonderful classes that introduce students to new academic fields.

One of the great aspects of summer camp is that it gives students an opportunity to make social adjustments to new and different people. It develops self-reliance and independence. Noted author and educator Peter Scales, Ph.D., Senior Fellow at The Search Institution stated, "The biggest plus of camps is that camps help young people discover and explore their talents, interests, and values. Most schools don't satisfy all of these needs. Kids who have had these kinds of [camp] experiences end up healthier and have less problems which concern us all."

Camp attendees may attend a private planetarium show, take educational nature walks through Tuscawilla Preserve, or handle real fossils from the Museum's backroom collections. Our approach to summer camp has been consistent over the years. Our philosophy is to offer hands-on educational content while having fun. There are many targeted outcomes from the Museum's summer programs, such as developing a positive identity, creating an aesthetic awareness, leadership, adventure,

academic excellence, exploration, environmental awareness, and new friends. Students gain independence, learn new life skills, and spend time with positive role models.

*History's Mysteries*, *Backyard Rockets*, and *Florida Naturalist* are examples of our innovative courses loved by our students. These programs are not prepackaged but have been perfected over the years right here at the Museum. These courses are unique and our educators continually refine them to develop the best possible experience for the student camper. It is courses like these that have made SLI such a success. Our goal is that these experiences continue to impact the students and that they love learning and museums for the rest of their lives.

If you have a child between 4 and 13 years old, there is a class for everyone's interest whether it is science, nature, space, history, or art. The Museum's summer program is the perfect time to introduce your student to the Museum's vast collections, and for them to develop an appreciation and understanding of them.

If you or one of your children have ever attended an SLI camp that you remember fondly, we would love to hear about your experience. It is wonderful to hear how our passion to develop quality programming that is both entertaining and educational continues to make a difference in people's lives.



"As long as there is trace of this earth and sky,  
Let the Ottoman house be the supreme lords

On the throne of justice and good fortune  
May it be perpetually joyful and successful

Let the name of Sultan Murad  
Be the beautifying ornament of sermons and coinage."



Shah Abbas, The Great, c. 1600

Sent from the court of Shah Abbas, to Sultan Murad III, this inscribed Safavid rug may have marked the 1590 peace treaty between the two empires.

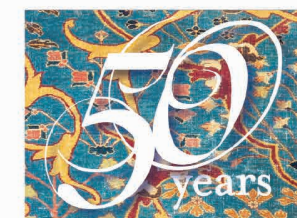


Sultan Murad III, c. 1600

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# EXHIBIT SPOTLIGHTS

## MASTER ARTISTS AT MOAS



JILL CANNADY, "CROUCH," 2014, CHARCOAL AND ACRYLIC WASH ON STRETCHED CANVAS. COURTESY OF THE ARTIST.

### EXCEPTIONAL: THE ART OF JILL CANNADY

Open February 20 - May 2, 2021

Jill Cannady has had a long and successful career in Florida, beginning with thirty years in Miami followed by decades in Central Florida. One of our state's most preeminent artists, her work is truly "exceptional" in subject matter, exquisite technique, and her unique ability to intrigue viewers and pique their interest. Her works are often funny or ironic and always full of movement and life and never fail to evoke a response from the viewer. We are honored to be able to bring her works to the Museum of Arts & Sciences.

**RUTH:** *Jill, You have moved between different media throughout your career – from painting to sculpture, to ceramics and even textiles. Can you speak a bit about this desire to express your pieces in different mediums?*

**JILL:** I never met a medium I didn't like. Encountering a new medium can be so exciting and the possibilities so wonderful that I begin thinking in a whole new way.

There is no perfect medium, they all have their pluses and minuses but experience with so many different mediums allows me to choose what is best to express an idea. The idea should take full advantage of what each medium has to offer.

A medium also needs to fit the artist's way of working. Does it promote a thoughtful or spontaneous handling? That might have to do with fluidity or drying time. Is it versatile etc.? I may push a medium in all directions to test it and myself.

**RUTH:** *You seem to prefer figuration, be it human, animal, still life, etc. over more abstract ideas. Can you speak to that and also some of the artists from the past who have inspired you? I see something of Rembrandt and other Dutch masters in your technique and approach. Am I wrong?*

**JILL:** I consider myself a figurative artist because most of the time that is what interests me. However, I have a wide range of ideas and if something doesn't fit that definition but feels compelling, I do it. I want to express the way I see things and the way I feel about the experiences of living.

Although I drew and painted from life at an early age and have developed a fairly accurate eye, at the art academy and in my graduate work I was an abstract, even a non-objective painter. At the age of 10 or 12 years, I first became aware of the limitations of descriptive painting. There was an exciting wind, the kind that occurs after a heatwave as the weather is changing and I wanted to capture the feeling of wind, on canvas. A description of things blowing was not enough, I wanted the brush strokes to be the wind, I wanted it to be direct. I couldn't do it and after a day spent trying, I gave up, but the idea of non-descriptive painting remained interesting to me.

In college, I was introduced to Abstract Expressionism and I embraced it, learning a great deal in the process. Willem de Kooning's wild expressive brush strokes and the strength of the black and white paintings of Franz Kline impressed me the most though my work was, of

course, nothing like theirs. I painted mostly in acrylics, trying my hand with a variety of other drawing and painting mediums and techniques. The works I produced were shown in a number of group exhibitions winning a few awards but as I worked the figure began to appear in things I wanted to be non-objective. Finally, I realized that my work was demanding that I return to the human figure, so I did.

I started with self-portraits (a model always available) then friends and family. Several portrait commissions followed. Although I love looking at people (there are no ugly people, only ugly expressions) I didn't want portraiture to define my work.

Masks, dolls, manikins, commercial images of humans (discarded and marked by use) as well as casual objects, including packing materials that happened to be in the studio, became non-traditional still-life paintings.

I began to make small, sculpted images of people and the animals associated with them to use as models to work from. These eventually grew into full scale sculptures after I received a SAF/NEA grant for sculpture in 1991.

Art history is known to me through books and museums. As a child, my family visited the Toledo Museum of Art in Ohio where I was fascinated by *The Architect's Dream*, a painting by Thomas Cole from 1840, and *The Oath of The Horatii* by Jacques-Louis David from 1784. I may have been influenced by the stage like space of the latter and the imaginative use of architectural history in the former. There are not any specific artists that I am conscious of directly inspiring my work. Seeing good art always makes me want to work. Actually, even seeing bad art makes me want to work.

**RUTH:** *I'm amazed at how you can move from such a polished, tightly composed, and stunningly beautiful painting such as "The Understanding" – a major self-*

*portrait from 1973 in the Norton Museum of Art – to many of your other works which are highly animated with expressive brushwork. You seem to want at times to challenge yourself – get out of your comfort zone, so-to-speak – and create in new ways. Some may say all artists do that. But I would have to disagree because I have seen many artists who find a comfortable working manner and stick with it. Can you speak to your need to branch out in style...push the envelope?*

**JILL:** I create by exploring an idea over a period of time, maybe a year or so, and then I am ready for a change. The change has usually been in my thoughts for some time and may have been prompted by a path suggested but not taken during the current work. These changes can seem drastic and may involve scale, medium, or idea, sometimes all three.

The work that I create is usually well planned and thought out. First comes the general idea and composition with the collection of information, choosing and preparing the medium and the surface then doing preliminary drawings. I do all this because in the end it saves time and it gives me the freedom to concentrate on my use of the medium which is being explored and taking advantage of opportunities as they occur to me while working, especially if the idea involves something I haven't done before. This is the fun part! Challenging myself is what makes working exciting, even with all my preparations, not knowing how it will turn out.

**RUTH:** *A see a strong sense of narrative in your works – often the pieces seem to cry out to tell a story. Did you ever think you might also be a writer or filmmaker inside?*

**JILL:** Narrative is not something I think about, but some of my work does depict a moment of arrested movement which suggests future consequences, a little like seeing stills from a movie that shows you the good parts. ■

### SEEING DIFFERENTLY: PHOTOGRAPHY BY MARGO KESSLER COOK

Open March 20 - July 18, 2021

Margo is a Fine Art International award-winning photographer. She is also a self-taught artist who has worked in printmaking, fabric design, and metal-smithing. Her approach to photography is that of a quiet observer who discovers interesting things in ordinary places; shedding light onto subjects that many times go unnoticed. Cook is known for her B&W architecture images. She often takes the language of shapes, forms, and lines creating abstract compositions giving the photograph a degree of independence from the normal visual reference.

**RUTH:** *Margo, can you fill in us in a little about how you came to become a fine art photographer?*

**MARGO:** It was an evolutionary process. I started taking photos out of necessity. I had to submit photos of my art for juried competitions and exhibitions. After doing that for a while I started to see the camera as more of a means of artistic self-expression instead of a tool to document my artwork. So, I kept pushing myself in that direction, experimenting and seeking out ways to express an idea, a message, or an emotion using a camera. In all the mediums I work in I find it's the most creative for me. When looking through the camera lens, it's an imagination parade that takes you on a never-ending journey.



**RUTH:** Can you explain a bit what leads you to search out details and patterns to turn into works of art?

**MARGO:** Assembling a 1000 piece jigsaw puzzle to produce the image on the front of the cardboard box might be a clue. Do enough of those when you're a child and something sticks. Your past experiences somehow manifest themselves in unusual ways in your future endeavors. Maybe linking those pieces to create a picture was where it started. I like the connectivity of things; how one thing is associated with another, how they fit and are built to create the end results. I look for visual clues and details that others might miss and present them in a way to make the viewer see it differently.

**RUTH:** You have worked in other media – such as metalsmithing and printmaking -- throughout your career, as well. How do you think the experience of these other techniques has influenced your photography?

**MARGO:** All the elements of line, shape, color, texture, form, space, and tone come into play. There are certain mechanical skills necessary in metalsmith and printmaking to create a piece of quality art. With photography, there are technical things like sharpness, contrast, lighting, etc. to produce a good photo. They all embrace one another. I lean on my artistic eye and the discipline achieved from working in these other mediums to create my photographic images. I find the most important of skills learned is that of good composition.

**RUTH:** I first saw your photography when I juried an exhibition a while back in which you submitted "Liquid Metal." I gave you an award for that incredible photograph and was so intrigued by how you happened to take this photo of the Disney Concert Hall in Los Angeles. A good number of your photographs have some interesting stories about how they came about – can you tell us some of these? For example, the story behind "Between a Rock and a Hard Place."

**MARGO:** It was a bit of a challenge. I was in LA at the time and took a day to visit LACMA. In particular, I wanted to see Heizer's "Levitated Mass." Seeing it for the first time inspired me to search for a unique and meaningful image. It made me think about the old adage of being caught 'between a rock and a hard place' that proverbial difficult situation of having two equally unpleasant or unacceptable options. I wanted to reflect that and express it somehow in a photo utilizing his masterpiece. So, I decided the best representation would be to capture only one man trekking the 456' viewing pathway beneath the 340-ton monolithic sculpture. The day was a typical LA hot, sunny, smog-filled day with hordes of people walking the path. I waited for over an hour in that blistering heat. Two 16oz

bottles of water later, a sun-crisped nose, and a need to find the nearest restroom, I finally got my man!

A printed copy of this photo is hanging in my studio. I find it provides a striking visual aid to reflect upon during challenging times. Although this image has a pathway that seemingly leads to nowhere, in particular, it nonetheless offers an escape route from being caught - Between a Rock and a Hard Place.

**RUTH:** Your list of awards is truly incredible. Can you tell us about some of your most recent and most distinguished? Any awards that mean a good deal more to you than others?

**MARGO:** Of recent, recognition from BIFA (Budapest International Foto Awards) for a Silver Award, "Rise and Fall" in Architecture/Interior category. This series is part of the "Seeing Differently" exhibition here at the Museum. Also, an Honorable Mention for "He Loves Me" from TIFA (Tokyo International Foto Awards).

Winning Third Place, from IPA (International Photography Awards) in the Nature/Flowers category for my floral series, "Her Breath of Sensuality" comes to mind. This award took me to enjoy the IPA gala at Carnegie Hall in NYC. Four photos from that series are here in the



MARGO KESSLER COOK, ANGLES ON THE HUDSON, COLOR PHOTOGRAPH, COURTESY OF THE ARTIST

"Seeing Differently" exhibition. These photos were the result of an experiment using my cell phone with an attached macro lens.

All the awards are a blessing from above and I'm truly grateful for them. It's an honor to be included with so many incredible photographers who participate in all these competitions.

**RUTH:** Tell us about your most recent works and what has inspired them?

**MARGO:** "A Bite in Miami" is one of my favorites in the line of recent works. It took me by surprise as it was not my intent to create a silhouette. I was out and about taking architecture photos when I looked up and saw this young man having his lunch. The background of the Miami blue sky was so intense I couldn't help but take a few quick shots. It wasn't until I returned to my studio and began processing the images that I noticed the photo. Again, the blue sky contrasted with the man's silhouette right at the moment of the 'bite' caught my eye.

It made me recall the delight of seeing things in a silhouette form so it helped me create this photo as a visual aid allowing one to see MORE with LESS.

**RUTH:** Any new directions or new ideas germinating, that you think will lead to some future projects on your horizon?

**MARGO:** I'd like to continue experimenting with my macro lens on my cellphone. There's an adventure that happens when I can buy a bouquet of flowers and explore new ways of capturing their beauty and sensuality. I'd also like to get back to doing some photogravure printmaking. I would also like to continue to participate in photography competitions. It helps me be a better photographer by constantly pushing myself to review my work; weeding out the good from the bad. ■



SARA PEDIGO, "SOLITARY LIGHT," OIL ON CANVAS. COURTESY OF THE ARTIST

# HOME: PAINTINGS BY SARA PEDIGO

Open May 8 - July 25, 2021

Sara Pedigo is a North Florida painter whose seemingly unpretentious views of her home and immediate personal environments have brought her recognition and awards nationally and internationally. She grew up in the South after receiving her MFA in Painting from the University of Massachusetts, Amherst, in 2007. She is currently a Professor and Department Chair of Visual and Performing Arts at Flagler College located in Saint Augustine, Florida, her undergraduate alma mater. Pedigo has exhibited nationally, with solo exhibitions at Western Illinois University, Furman University, College of Southern Nevada, Barton College, and Arts on Douglas, New Smyrna Beach, Florida, and Wynn Bone Gallery in Annapolis, Maryland.

**RUTH:** Sara, we've titled your exhibition "Home" because you seem to love to focus on intimate, everyday scenes of your own home, often caught in its familiar "lived in" state. This, of course, has a deep resonance with all of us these days as we've found ourselves working from home and more attached to our own home environment than we ever thought we would be. But you've been painting these types of scenes for many years – long before the pandemic. Can you explain to us a bit of what makes this type of subject matter appeal to you so strongly?



**SARA:** First and foremost, I want to take a moment to thank you for inviting me to exhibit at MOAS and for this interview. It is my greatest joy to share my work publicly and as someone who is especially susceptible to compliments, to hear that the paintings resonate.

Since roughly 2012, my work shifted from being primarily figurative and based on photographs to directly recording aspects of my daily life, which resulted in lots of artworks recording seemingly mundane occurrences. The twentieth-century painter Charles Hawthorne spoke of "learning to see more beautifully." Considering this, my simple premise is to see the beauty in my everyday surroundings as a celebration of life itself. For me, light plays a large role in turning the familiar into the spectacular. Painting directly from life or perceptual painting requires substantial time looking at a subject. Typically, these paintings take a series of months to complete. As it turns out, the more time I spend looking, the more beauty I see everywhere. I've since read a good deal about mindfulness, a connection that seems very obvious. I am particularly delighted by cast shadows and reflected light bouncing around rooms and changing as the days and seasons pass. Author John O'Donohue, talks about this idea, though unrelated to painting, in an essay entitled "To Beautify The Gaze." He states, "The graced eye can glimpse beauty anywhere, for beauty does not reserve itself for special elite moments or instances; it does not wait for perfection but is present already secretly in everything. When we beautify our gaze, the grace of hidden beauty becomes our joy and our sanctuary."

**RUTH:** *I think I can safely say that people do not figure very prominently very often in your paintings. Rather, the human presence is implied by clothing draped over a chair or used dishes, etc. Everything that makes up our everyday lives, especially at home. And yet over this past summer, you had a portrait accepted to the BP Portrait Award 2020 Exhibition at the National Portrait Gallery in England. How exciting! And congratulations! Can you tell us a bit about how that came about and your feelings on this honor?*

**SARA:** I agree with you that most of my work implies humans but does not directly feature them. I have become more and more drawn to that element because it opens the work up to others, allowing the viewer to enter the scene as though it was theirs. As I mentioned above, I previously painted the figure quite a bit but have gradually done so less and less as my interests shifted. However, I have continued to paint self-portraits (although most don't end up in the public sphere). The BP Portrait Award is a highly prestigious annual competition that requires the painting's completion in the calendar year before the exhibition. I previously submitted to the contest unsuccessfully but wanted to enter again. This year I was very fortunate because my painting was

among 48 paintings selected for the exhibition from the 1,981 entries from 69 countries. I found out via email right before one of my morning classes and scared several of my students because I ran out of my office yelling, "I can't believe it, I can't believe it!"

**RUTH:** *It's a beautiful portrait and a real testament to your love for what you do. And yet, in looking at the painting on your website I can't help but notice that you figure somewhat slightly in the composition. The painting is a tour de force in the atmosphere, temporality (the bewitching hour of dusk hangs so mysteriously over the painting), and your signature skill with the palette knife in your painting style. It's a masterful work showing yourself at your easel viewed through a window that seems to say that you are a painter at your very core. In other words, the painting, as a portrait, seems to say that you are all about what you do, which is paint. Am I wrong in my interpretation? Can you elaborate a little on that ... or offer other feelings on this portrait you submitted to this very prestigious competition?*

**SARA:** I love that you get that from the portrait. As a painter, I am drawn to the idea of being a "painter's painter" and so it would make sense that I would present myself that way. There is something about reflections in windows at night that are fascinating. I think it is because there is always an intricate double image, a world outside of the window, and the interior life reflected onto the glass. The painting is as much a self-portrait as it is a record of me merely looking at my studio window. It is also an unusual painting because I moved out of that house before I thought the work was entirely resolved. Deciding when to stop working on a piece is a challenge for me, and frequently "completed" paintings find themselves back on the easel for alterations. With this painting, I took it as an opportunity to move on and let certain aspects of its creation stay more visible, including measuring lines and marks. It is not a typical portrait, and that is what I like about it. The work visually shares the rich complexity of a seemingly banal object, as opposed to a straightforward version of myself.

**RUTH:** *You've been teaching quite some time now and I'd like to ask what you consider the most important words of advice you offer your students.*

**SARA:** Teaching is a gratifying and challenging job; I find that it is continually pushing me to be a better artist and educator. One bit of advice that I frequently give to students is that "time equals talent." I am a firm believer in the idea that the only way to get good at something is to dedicate significant time to practice. Malcolm Gladwell made this case very popular in his book "Outliers" where he discusses the 10,000-hour rule. Essentially, to become exceptional at something, one must spend that much time practicing. Frequently, students can get discouraged if they struggle with

mediums or concepts. I share my experiences with doubt and the importance of hard work. I was not always the best student, but I typically outworked my peers. Over time that adds up; persistence is critical. I want to be the tortoise, not the hare in the foot race. Additionally, I think that creative people are drawn to specific themes and ideas, and it is important to honor that. I instinctively painted similar subject matter as an undergraduate; recognizing and cultivating creative interests leads to artistic development.

**RUTH:** *Any thoughts on upcoming projects or directions you think you might go with your art?*

**SARA:** Great question. One new development in my work involves writing text directly onto my paintings as I work on them. The results are varied, and sometimes that evidence is left visible while other times it is almost wholly lost in subsequent layers. The text can be a line from a poem that struck me, a phrase pertaining to an experience, or a quote from listening to an interview.

## TIME-HONORED: THE ART OF DEAN MITCHELL *Open May 8 - September 19, 2021*

One of Florida's preeminent artists who is in museum and in prominent private collections around the world, Dean Mitchell captures mostly unseen views such as beautifully worn and weathered barns off rural back roads as well as friends, family, and neighbors with watercolor strokes that seem timeless, quiet, and eternal. With his unique and award-winning style and talent, he honors his subjects – be they deserted farmscapes, the historic facades of New Orleans' French Quarter, or loved ones and acquaintances. All are treated with respect and restraint in acknowledgment of their time and place within the human story and our history. And time has honored Dean Mitchell, too, as he is recognized now as one of America's great artistic voices, receiving accolades far beyond the Sunshine State.

**RUTH:** *You've been painting for quite a long time and one of your hallmarks, I think -- in addition to your mastery of the brush -- is focusing on abandoned and broken-down structures in America's back country. This is not, of course, your only subject matter because you are known for beautiful portraits and urban scenes, as well. But it does seem that you search out what to most people would be less beautiful scenery to reproduce in your works. Can you address what draws you to such places and scenes? Do you search them out or just happen upon them?*

**DEAN:** I am drawn to anything that is overlooked or felt ugly or discarded because there is a haunting quality,

I am not sure how the writing fits into the work as a whole, but I am letting the experimentation of it play out. Currently, even when the script is legible, it is not easily noticed and would likely be missed by someone casually viewing the work. I enjoy reading poems and often title my paintings based on phrases plucked from stanzas. Incorporating writing into the paintings seems like another way to layer time and experience onto the image's surface.

Additionally, I've also worked on some newer paper-based paintings, done from photographs and including more text. These works feature images of people and objects visually collaged together. They are very fresh, and I'm not sure they will make it out of the studio, but it has been fun to work on them.

Regardless, I plan to continue painting in the same direction as the works featured in the MOAS exhibition. I find that painting from life offers me endless variation, even when I am repeating similar scenes. ■

power, and beauty. I was born out of an affair. When my mother became pregnant, she fled her small town of Quincy, Florida, out of fear and shame. I was born in Pittsburgh, PA, and left there as a baby. Months later, when my mother returned home to Quincy, my grandmother told her to go back and get me, and she would raise me. My mother was the first of her siblings to have the opportunity to go to college. If they ever found out she had a child, they would have kicked her out of school, so I was essentially hidden, and my father laid no claims to my existence. I believe I have inherited that sense of abandonment in my soul. I am attempting to give power to my own life and to spaces left behind, used, and unwanted.

**RUTH:** *And your palette tends most often towards muted browns, greys, and other neutrals which help to give your scenes a sense of the "antique," if you will -- a sort of timeless, or time-honored quality which is part of how we settled on the title for this exhibition. Can you talk about how you view color in your works?*

**DEAN:** I was told by my junior high school art teacher that I was an abstract painter. I see value and movement first; it's a spiritual interpretation of space through subtleties and value. There is something alive in the greys.

**RUTH:** *Have some artists -- past or contemporary -- influenced you?*

**DEAN:** Yes, there are plenty. I would say, Rembrandt, Degas, Matisse, Tanner, Lawrence, Diebenkorn, Picasso, Wyeth, Hopper. There are so many... Freud, Kline.





DEAN MITCHELL, "VANISHING DYNASTY," WATERCOLOR ON PAPER. COURTESY OF THE ARTIST.

**RUTH:** Your works have been placed in prestigious collections all over the country -- the world, actually. Can you tell us about some of those you consider to be the most important to you? And can you also speak to some of the highlights of your career so far?

**DEAN:** The Kemper Museum of Contemporary Art has a painting of my uncle who is stricken with lung cancer. Its founder, the late Crosby Kemper Jr., purchased the painting. It's important because he asked me about it because he was moved by it on his first viewing of the painting. I explained it was my uncle who was dying of cancer. I later found out his first wife passed from cancer. It is important because it's a painting of my uncle, who is African American but transcends race and speaks to a deeper part of our humanity. This painting reveals our humanity regardless of the social constructs that have crippled our common frailness.

The Phoenix Art Museum has two of my paintings displaying impoverished reservation structures of the Pima Maricopa Reservation. It is an ongoing series bringing a focus on poverty and spaces in America.

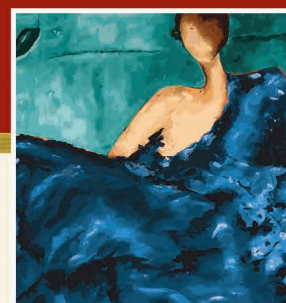
There have been numerous awards, but a significant one for me was the American Watercolor Society Gold Medal

Award. The book collaboration with Maya Angelou and Wynton Marsalis; meeting President Obama and the First Lady after being recommended by the National Portrait Gallery to commission their portraits; my relationship with Bryant Galleries in New Orleans that placed me in an international market; the *New York Times* article in 2002 by Michael Kimmelman.

**RUTH:** We're so thrilled that we could have the opportunity to show your work at MOAS because you're a busy, in-demand artist. Can you tell us about some projects on your horizon?

**DEAN:** I have a show coming up at the Margaret Hartwell Museum in Poplar Bluff, MO. It is important because it was the first museum that invited me to have a show in 1989. I have multiple invitational shows at various museums coming up. ■

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# BEHIND the SCENES

During the year of 2020 the staff at the Museum of Arts & Sciences stepped out of their comfort zones and became our on camera talent. Take a peak behind the scenes at what sparked our ideas, obstacles during video creation, the process of filming, and more!

## Kristen Alford Director of Community Relations

### What sparked the idea for the MOAS baking tutorial videos?

The MOAS baking tutorials were the result of binge-watching The Office during quarantine. I was approached to create a craft tutorial video, but I knew that we already had our very talented Education Associate, Nicole Messervy filming our craft content. I wanted to provide something for our audience that steamed from my own personal interests, or something that was unique or unexpected from MOAS. It just so happened that National Pretzel Day was just around the corner, and after watching The Office's



National Pretzel Day episode, I had planned on making soft pretzels from scratch! I decided that this could be some fun and entertaining content to share on our social media channels. So, I filmed my first attempt at making soft pretzels.

### What other baking tutorials did you end up filming?

After such a positive response from the National Pretzel Day baking video, I decided to try filming another tutorial, this time tied to something we showcased within the Museum. I decided to focus on cooking with Coca-Cola to highlight the Root Family Museum. We made a Coca-Cola cake, and despite a potentially disastrous cake de-panning experience, it was delicious! With total surprise to how well these tutorials were being received, we decided to keep going! I tried to think of themes and bakes that would be fun for kids and families to try at home and would do my best to decorate my kitchen to theme. We mentally took a trip to French Quarter, New Orleans with a fun copy-cat recipe for Café du Monde beignets and celebrated summertime with a variety of bakes in the MOAS Summer Baking Series.

### What were some of your favorite parts about filming these baking tutorials?

This was such a fun opportunity to celebrate some unconventional holidays like National Gummi Worm Day, National Sweet and Salty Day, National Lemonade Day, and Shark Week! Filming these videos was such a wonderful experience for me and something that I really enjoyed sharing with our MOAS audience during a time when the only way we could connect with everyone was virtual. It was exciting to see how many people tuned in

and baked with me. With my role at the Museum being more behind the scenes, it was great to feel connected to our followers. Who knows, maybe we will have a few baking videos sprinkled throughout our social media channels in 2021!

## Zach Zacharias Senior Curator of Education and History

### What was your favorite thing to film in 2020?

Since March 2020, the Museum staff has been hard at work creating online programming. One of my favorite programs that I have put together for virtual viewing is Afternoon with Florida History. I have filmed several segments such as the Volusia Bar Lighthouse, a trip down the Old Dixie Highway, the history of the Brock House Hotel, and others.

### What was it like filming these videos?

Although most of my videos fall between five and eight minutes long, they are surprisingly complicated to create. A great deal of prep work goes into these productions even before the first video segment is shot. One of the first things I do is find a historical site that I believe our members and community would be interested in learning more about. There are so many in Volusia and Flagler counties that it has been hard to just pick a few! Once I decide on a topic, I begin to research the site to learn the historic narrative. I put together a storyboard and write out a script for scenes on and off camera and use the Florida Memory Project website to find historical photos for overdub narratives.



### Did you run into any obstacles while filming these videos?

Since most of what I do is outside, weather can definitely be an issue. When I produced the history of the Brock House Hotel, a historic grand hotel on Lake Monroe that no longer exists, I had to wait several weeks to safely venture onto the lake in my kayak. On my first several attempts it was either very windy which affected the sound quality, or the lake was too rough and threatened to capsize. Eventually, I realized that I need to be on the lake at 7:00 a.m. in the morning when it was at its calmest.

### What are some things you had to take into account to do your own filming?

Careful and detailed planning is a must as you do not want to be out on a 40-minute grueling kayak trip in August heat only to discover your batteries are not charged, you brought the wrong adaptors, or you are missing other essential equipment. Water, sunscreen, bug spray, a life preserver, and letting others know of your intended location are essential because you are going to be on open water. Recording on a kayak is very difficult as you tend to float away on currents, nearby boats cause outside noise, and the threat of dropping equipment into dark tannic water was always a constant danger. I learned a lot through trial and error and became much more efficient the more segments I created.

### How long would you say it takes to create one of our videos?

Three minutes of recorded content on the lake took four to five hours in travel time and recording a sufficient number of takes. A five to eight-minute video production could take 10 to 11 hours of editing, voice overdubs, titles, and reshoots. Since I was working from home, I had to learn a lot of new skills, like how to transfer a large gigabyte video over the Internet. I used a program called "WeTransfer" which allowed for quick and simple transfer of large files. I also had other issues to overcome, like storage space. Running low on computer storage or storage on the filming device was a constant issue. Many hours were spent with an Apple representative solving storage issues. In the end, I learned a lot of new and valuable skills in creating the segments for Afternoon with Florida History. It was very frustrating at times, but also a lot of fun and very interesting. I hope the programs were enjoyed as much as I enjoyed creating them.

## Seth Mayo Curator of Astronomy

### What was the first video you created for enjoyment virtually?

One of our popular programs at MOAS is our daily "Sky Tonight" tour of the night sky. We believed it was important to provide an alternative version of this program since everyone would have more time at home to explore the skies above. Fortunately, I have had a lot of experience using the free planetarium software, Stellarium, which became very useful for this endeavor. This software is a wonderful resource that anyone can download on their computer (stellarium.org), allowing you to explore all of the amazing celestial objects you can find from your given location. Using Stellarium, coupled with a simple screen record function built-in to any Windows 10 computer, I presented our first virtual "Sky Tonight" episode, and it quickly garnered many views and was well received by our followers online.

### How do you prepare to record a new virtual Sky Tonight video?

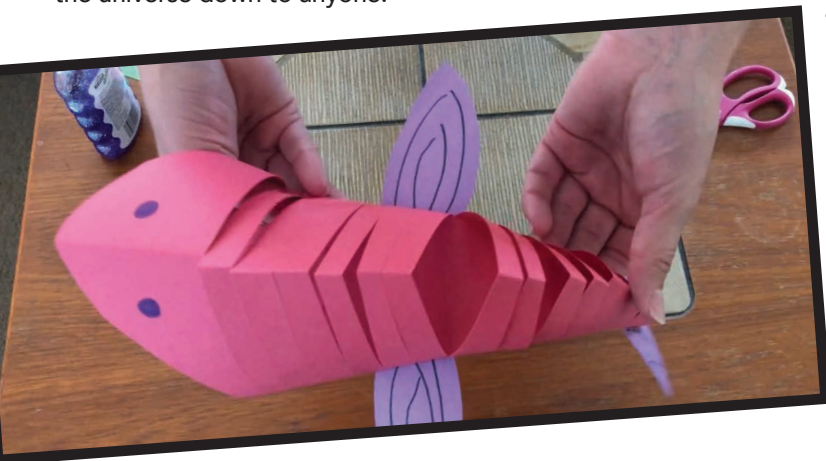
When it comes to creating an episode of the "Sky Tonight," I follow many of the practices I have learned over the years



performing countless live shows in our Lohman Planetarium. For the week I am recording for, I will look up various sky calendars accessible online to check if any significant celestial events or objects are coming up. I like to emphasize things that would stand out to anyone that is casually looking at the night sky – an approach I take for our in-person shows. I then choose one or two objects, or concepts, that relate to what can be seen or is occurring that week and I provide a little more detail for those who may want a deeper dive on the subject. This may be telling the ancient mythologies of a particular constellation, highlighting an upcoming meteor shower and why it occurs, looking at an interesting star and what makes it tick, or honing in on a deep sky object that may only be visible with a telescope. Each “Sky Tonight” episode then becomes its own unique story, with something to look forward to that week.

**Did recording the virtual Sky Tonight videos prepare you to start presenting live virtual content?**

Many of the lessons I have learned while recording the virtual “Sky Tonight” videos have proved useful in other virtual lectures and programs we have completed this year. Upgrading to using streaming software to record our “Sky Tonight” has been quite helpful in hosting live content, either on Facebook or ZOOM. I also use a portable green screen behind me if I am on camera to digitally transport me to other celestial destinations while I speak to our viewers, hoping to create a fun atmosphere and aesthetic during the program. I like to plan one of these digital lectures as if I would be presenting in the actual Lohman Planetarium, but with a frame of mind that our viewers are seeing the content from their computer monitor or cell phone screen. For this reason, I like to use Stellarium, along with our planetarium software, Uniview, and the free and open source program known as Open Space (openspaceproject.org). Open Space is also software that anyone can download for free, which provides 3D visualization of our universe that is scientifically accurate and updateable. Utilizing these programs that offer a 3D perspective, can make watching on a flat screen much more intriguing and immersive, along with traditional slides and images. These digital programs have been a joy and a challenge to make, and we plan on continuing them in the future, even while the Lohman Planetarium is open and operating safely. They have helped us reach out to a bigger audience and connect with so many different communities, allowing us to bring the universe down to anyone.



*Nicole Messervy*

Education Associate

**How did you come up with your craft ideas?**

Most of the crafts that I picked were ideas that I saw on Pinterest. I also put together some crafts that we do during the Summer Learning Institute and our Family Craft Days. Since we were on a stay-at-home order and there were a lot of restrictions on going out, I tried to select crafts that families could do together with items that they may already have at home. There were a few times that I would find a craft that I would really want to film, but I did not have the proper materials and figured that most families would not have them either unless they went out to buy them, so I would try to substitute the materials with something else that might be more easily accessible. This would usually work out, except for when I tried to make a cute little Ewok craft for Star Wars Day. They were made out of toilet paper rolls and felt material. I did have some pre-cut felt pieces but they didn’t cover the whole toilet paper roll so I substituted construction paper. It was a mess! It looked nothing like an Ewok when I finished it. So instead, I came up with the Crayon Resist Death Star craft which ended up being one of my favorites!

**Did you have anything funny happen to you while filming?**

One of the things I had to deal with while filming craft videos at home was keeping my incredibly curious cats from messing with my supplies. One time I was cleaning up from one of my crafts and I thought my cats were not around. I went to rinse off my paintbrush and when I came back there were green paw prints on my table. Luckily, I was using washable paint so that came off and I quickly washed his paws before he could do any more damage! For the most part, though my cats would leave me alone after a while or watch from a distance. This was not the case however when I was filming my Pinata Popper craft for Cinco de Mayo. The moment I started putting the streamer paper around the toilet paper roll, one of my cats would not stay away. I eventually gave up and just let them be involved in the video. If you go re-watch the last few minutes you will get a glimpse of what it was like filming with them most of the time.

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# EASY REFERENCE COURSE SCHEDULE

AGE GROUPS	JUNE 14-JUNE 18	JUNE 21-JUNE 25	JUNE 28-JULY 2	JULY 12-JULY 16	JULY 19-JULY 23	JULY 26-JULY 30	AUGUST 2-6
4-5-6 Years Morning	Dinosaurs: A Lost World	Science Wizard	Life Under the Sea	LEGO® Giant	Paint, Print, and Splatter!	A Pirate's Life	Space Cats
4-5-6 Years Afternoon	Junior Picasso	Walk on the Wild Side	A is for Art	Backyard Naturalist	Symphony of the Five Senses	Fossil City	Happy Camper
7-8-9 Years Morning	Paleontology 101	King of All LEGO®s	Mission Through the Solar System	Rockets' Red Glare	Art Funtastic	Cast in Rock	The Nature of Things
7-8-9 Years Afternoon	Mega Science	Science Mania	Be Like da Vinci!	Archaeology Lab 101	Welcome to Hogwarts	Beginners Chess	Mad Professor
10-11-12-13 Years Morning	Down to a Science	Creative Chemistry	Beginner and Advanced Chess		CSI Daytona		Sensational Science
10-11-12-13 Years Afternoon	Art Strong	Science Strong	Welcome to Hogwarts		Classic Games		Excelsior Comic Book Creation
10-11-12-13 Years All Day				Claymation Movie Making		Short Movie Making	

## Student Registration Form 2021

Name \_\_\_\_\_ Age \_\_\_\_\_ Address \_\_\_\_\_

City/State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Parent(s) \_\_\_\_\_ Email \_\_\_\_\_

Additional registration forms, online registration, and more information can be found online at [www.moas.org](http://www.moas.org)  
 NOTE: Tuition fees are indicated by museum member discount price first, followed by the general admission fee.

### Programs Ages 4, 5 & 6

- ☐ Dinosaurs: A Lost World \$95/\$105
- ☐ Junior Picasso \$95/\$105
- ☐ Science Wizard \$95/\$105
- ☐ Walk on the Wild Side \$95/\$105
- ☐ Life Under the Sea \$95/\$105
- ☐ A is for Art \$95/\$105
- ☐ LEGO® Giant \$95/\$105
- ☐ Backyard Naturalist \$95/\$105
- ☐ Paint, Print, and Splatter! \$95/\$105
- ☐ Symphony of the Five Senses \$95/\$105
- ☐ A Pirate's Life \$95/\$105
- ☐ Fossil City \$95/\$105
- ☐ Space Cats \$95/\$105
- ☐ Happy Camper \$95/\$105

### Programs Ages 7, 8 & 9

- ☐ Paleontology 101 \$95/\$105
- ☐ Mega Science \$95/\$105
- ☐ King of All LEGO®s \$95/\$105
- ☐ Science Mania \$95/\$105
- ☐ Mission Through the Solar System \$95/\$105
- ☐ Be Like da Vinci! \$95/\$105
- ☐ Rockets' Red Glare \$95/\$105
- ☐ Archaeology Lab 101 \$95/\$105
- ☐ Art Funtastic \$95/\$105
- ☐ Welcome to Hogwarts \$95/\$105
- ☐ Cast in Rock \$95/\$105
- ☐ Beginners Chess \$95/\$105
- ☐ The Nature of Things \$95/\$105
- ☐ Mad Professor \$95/\$105

### Programs Ages 10, 11, 12 & 13

- ☐ Down to a Science \$95/\$105
- ☐ Art Strong \$95/\$105
- ☐ Creative Chemistry \$95/\$105
- ☐ Science Strong \$95/\$105
- ☐ Beginner and Advanced Chess \$95/\$105
- ☐ Welcome to Hogwarts \$95/\$105
- ☐ Claymation Movie Making \$190/\$210
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- ☐ Short Movie Making \$190/\$210
- ☐ Sensational Science \$95/\$105
- ☐ Excelsior Comic Book Creation \$95/\$105

Please make sure your student is enrolled at least one week prior to the start date to help educators prepare for classes.

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Extended Care Program will be offered from 4:00pm - 5:30pm for \$25 per week. Extended Care students picked up after 5:30pm will be charged \$10 for every 10 minutes of additional care provided. Please mark the weeks which your student will attend:

- ☐ June 14 - June 18
- ☐ June 21 - June 25
- ☐ June 28 - July 2
- ☐ July 12 - July 16
- ☐ July 19 - July 23
- ☐ July 26 - July 30
- ☐ August 2 - August 6

### Payment

Reservations for each class are confirmed by your payment. Fees are non-refundable, but the Museum will make every effort to find an alternative placement for a student in another session if cancellation occurs.

Total Number of Program Sessions \_\_\_\_\_ sub total \$ \_\_\_\_\_

Number of Extended Care Weeks \_\_\_\_\_ x \$25 sub total \$ \_\_\_\_\_

Enclosed is my check # \_\_\_\_\_ TOTAL \$ \_\_\_\_\_

If you would like to pay with a credit card please register online at [MOAS.org](http://MOAS.org). For more information please call 386-255-0285.

Make check payable to:  
 MUSEUM OF ARTS AND SCIENCES  
 Mail to: Museum of Arts and Sciences  
 Attn: Summer Learning Institute  
 352 S. Nova Road, Daytona Beach, FL 32114





## 4, 5 and 6 Year Olds

### Week 1: June 14-18

9am-12pm  
**Dinosaurs: A Lost World**  
Paleo-preschool students will have exciting hands-on opportunities with real prehistoric specimens and dinosaur fossils from the Museum's collection. Your junior paleontologists will enjoy activities ranging from digging, sorting and classifying fossils to handling real fossils that date back 300 million years.

1pm-4pm  
**Junior Picasso**  
Paint, draw and create art beyond your wildest imagination. Utilizing the Museum's collection, you will explore art from around the globe. Create portraits, prints, sculptures, and draw your favorite animals! Take strolls through the Museum's galleries and become inspired!

### Week 2: June 21-25

9am-12pm  
**Science Wizard**  
The Museum has over 100 interactive, hands-on science kits that will aid in teaching your young scientist all about sound, light, physics, astronomy, paleontology, and more. Conduct your own science experiments and visit the Lohman Planetarium and the Charles and Linda Williams Children's Museum.

1pm-4pm  
**Walk on the Wild Side**  
Animals come in all shapes and sizes. They fill all corners of the world. During this class, students will learn about the diversity of animals from A to Z. Learn how animals communicate, move, and how they acquire food.

### Week 3: June 28-July 2

9am-12pm  
**Life Under the Sea**  
The Museum has a massive collection of oceanic artifacts and specimens for your junior scientist to explore. During this hands-on class learn about shells from around the world as well as sharks, fish, coral, and more. Work on becoming a great junior marine biologist while you sort and classify specimens. Look at microscopic plankton and learn why the ocean is so important to life on Earth.

1pm-4pm  
**A is for Art**  
Create one-of-a-kind art pieces in this class that allows you to explore the world of art. Tour the Museum's galleries and become inspired to paint, draw, sculpt, and construct unique pieces of art that would make Picasso himself proud.

### Week 4: No Classes July 5-9

### Week 5: July 12-16

9am-12pm  
**LEGO® Giant**  
Join the wonderful world of LEGOs and create dazzling sculptures, buildings, racecars, and many other sensational pieces. Use the Museum's impressive collection of over 200,000 LEGOs to construct your masterpiece. Visit the Museum's galleries, the Lohman Planetarium, and Tuscawilla Nature Preserve to draw inspiration for your creations.

1pm-4pm  
**Backyard Naturalist**  
Discover the world around you and learn about nature through the Museum's extensive collection of specimens that range from insects to bones, teeth, and other objects. Take a collecting trip through Tuscawilla Nature Preserve and collect your own natural history objects. Discover the biodiversity that exists in your own backyard.

### Week 6: July 19-23

9am-12pm  
**Paint, Print, and Splatter!**  
Paint, print, and splatter your way through the world of art. Take a trip around the world and learn about art using the Museum's extraordinary collection of fine art. Create prints, pottery, crazy art, finger paintings, and more!

1pm-4pm  
**Symphony of the Five Senses**  
Develop your five senses during this one-of-a-kind class. We rely on our senses to provide us with information about the world around us. During this class, you will use binoculars in Tuscawilla Nature Preserve, analyze color in paintings, discover sounds, touch unique textures, and much more in this hands-on class.

### Week 7: July 26-30

9am-12pm  
**A Pirate's Life**  
Shiver me timbers! Dress up like a pirate, design your own pirate flag, create your own treasure coin, and learn about life at sea as a pirate. Enjoy pirate stories, arts and crafts, and a fun dress-up pirate party! Landlubbers need not apply!

1pm-4pm  
**Fossil City**  
In this class, learn about dinosaurs, giant ground sloths, and other animals dating back millions of years. Sort, classify and learn about the amazing extinct animals that once roamed the Earth. Take a tour of the Prehistory of Florida Gallery and learn about the giant ground sloth skeleton! Hold real fossils ranging from dinosaur to mammoth bones and much more!

### Week 8: August 2-6

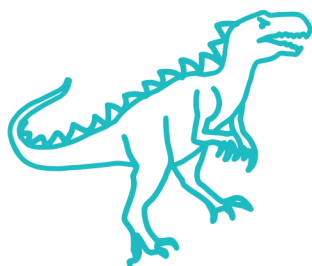
9am-12pm  
**Space Cats**  
Discover the stars, planets, and the Milky Way Galaxy while learning about the life of an astronaut. Learn about rockets and visit the Lohman Planetarium for an incredible show. Create a diorama of our solar system and a cool spaceship that will whisk you away to the stars and beyond!

1pm-4pm  
**Happy Camper**  
If you love art, science, and history – then this is the class for you! Take tours of the Museum's galleries and learn about portraits, landscapes, and the science of trains and racecars. Visit the Lohman Planetarium to study the stars and planets. Discover art, artifacts, astronomy, fossils, and all that the Museum has to offer. This unique hands-on class about art, science, and history is a great way to celebrate the diversity of knowledge!

## 7, 8 and 9 Year Olds

### Week 1: June 14-18

9am-12pm  
**Paleontology 101**  
Learn about the fascinating world of fossilized animals from the past including giant ground sloths, mammoths, mastodons, dinosaurs, and other extinct animals. Learn how to dig up fossils and identify bone material using the Museum's extensive collection of real fossils. Take a journey back in time and discover our world of ancient life through this hands-on class.



1pm-4pm  
**Mega Science**  
Jumpstart your camper's future STEM career with this fun and exciting science class. Explore electrical circuits, gravity, ice age fossils, bio-diversity, force and motion, and many other important sciences. Take a trip to the Lohman Planetarium and zoom through our vast universe. Learn about famous scientists and their discoveries as you learn to build your own conclusions.

### Week 2: June 21-25

9am-12pm  
**King of All LEGOs®**  
120,000 LEGOs can make life just about perfect! Enjoy a build-off every day and create your own buildings, towns, planes, abstract sculptures, and other LEGO creations. Learn about the history of historic buildings and structures from all over the world and build your own versions. Engineering, history, and science make for a perfect LEGO day!

1pm-4pm  
**Science Maria**  
STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators. Your camper will enjoy learning about biology, geology, astronomy, physics, and more as they build familiarity and understanding of these important academic sciences. The Museum has many fantastic hands-on science kits and resources to help form an excellent base of knowledge.

### Week 3: June 28-July 2

9am-12pm  
**Mission Through the Solar System**  
Join Curator of Astronomy, Seth Mayo, and discover our solar system like never before. Learn about the planets, moons, and special missions, both past and present, that have made our place in the Milky Way special. Visits to the Lohman Planetarium will highlight the science of discovery as you learn about geology, physics, rocketry, and more!

1pm-4pm  
**Be Like da Vinci!**  
Your imagination is the limit in this painting, printing, drawing, and construction class. Art made the world! Students will learn about portraits, landscapes, sculptures, and more as they create their own masterpieces using a variety of art media.

### Week 4: No Classes July 5-9

### Week 5: July 12-16

9am-12pm  
**Rocket's Red Glare**  
Join Curator of Astronomy, Seth Mayo to learn about the basic principles behind rocketry while constructing different types of simple rockets that you can launch from the Museum. Learn about propulsion, aerodynamics, and the history of space travel within the Lohman Planetarium.

1pm-4pm  
**Archaeology Lab 101**  
If you like learning about artifacts and ancient civilizations, then this is the class for you! Examine the science of archeology and how societies change over time. Learn about the tools, art, and artifacts that ancient people used every day. Discover the tools, the methods, and how archeologists excavate sites.

### Week 6: July 19-23

9am-12pm  
**Art Fantastic**  
Discover all forms of art that the Museum has to offer from abstract to realism. Enjoy hands-on activities including painting, sculpture, and pottery. Try your hand at printmaking using our printing press and take tours of the Museum to see collections from all around the world. Meet with one of the MOAS curators and learn how the Museum works.

1pm-4pm  
**Welcome to Hogwarts**  
Experience all of the different classes and activities that the Hogwarts School of Witchcraft and Wizardry has to offer. Students will get the chance to be sorted into their houses, play Quidditch for their house, and learn about the fantastic beasts that roam the wizarding world.

### Week 7: July 26-30

9am-12pm  
**Cast in Rock**  
Become a paleontologist and discover the Museum's collection of 1000s of fossils. Your young scientist will learn about dinosaurs, giant ground sloths, and other animals dating back millions of years. Sort, classify and learn about the amazing extinct animals that once roamed the Earth. Take a tour of the Prehistory of Florida Gallery and learn about the science behind the giant ground sloth.

1pm-4pm  
**Beginners Chess**  
Learning chess is a fun and exciting way to develop a young mind into a strong thinker. Learn all of the basics of chess, like piece placement, how to move the pieces, basic strategy, the difference between checkmate and stalemate, and more! Please note, this class is for beginners who do not know how to play chess.

### Week 8: August 2-6

9am-12pm  
**The Nature of Things**  
Discover the world around you and learn about nature from the Museum's extensive collection of specimens that range from insects and bones to teeth and other objects. Take a collecting trip through Tuscawilla Nature Preserve and collect your own natural history objects. Learn about the biodiversity in your own backyard. End the week on Friday at Gamble Place in Port Orange to close out the class and explore the amazing ecosystems at this amazing 200-acre preserve.

1pm-4pm  
**Mad Professor**  
Science is more important than ever and gives children a head start for the school year ahead. Enjoy a hands-on experience with topics such as electrical circuits, force and motion, astronomy, biodiversity, archaeology, and more. Take a trip to the Lohman Planetarium and zoom through the depths of our universe. Learn about famous scientists and how to draw your own conclusions.

*A one-hour supervised "bring-your-own-lunch" break between morning and afternoon sessions will be scheduled for all campers that will be staying for both morning and afternoon sessions.*

*Also offering Extended Care from 4pm - 5:30pm! See student registration form for details!*

## 10, 11, 12 and 13 Year Olds

### Week 1: June 14-18

9am-12pm  
**Down to a Science**  
Science makes the world go round! Through hands-on experiences, your young scientist will learn about electricity, Newton's Laws, astronomy, physics, fossils, and more. Visit the Lohman Planetarium and explore the vastness of the universe.

1pm-4pm  
**Art Strong**  
Learn about perspective, line, color, composition, and the principles of design while using the Museum's impressive collection of art as your inspiration. Landscapes, portraits, still life, print making, and abstract works of art will be the focus of this class. Take tours through the Museum's galleries and find your favorite piece. Learn about art history and aesthetic criticism. Discover different art processes and media to create your own masterpiece.

### Week 2: June 21-25

9am-12pm  
**Creative Chemistry**  
Through hands-on experiments, this class will help students connect real-world situations with science. Learn what makes a volcano erupt and create your own bottle rocket using the knowledge of chemical reactions. Learn about the periodic table, food chemistry, chemical compounds, and more.

1pm-4pm  
**Science Strong**  
Learn about science through hands-on experiences. Discover the science of electricity through our large Van de Graaff generator, explore new fossils that were recently donated to the Museum, learn about Newton's Laws, astronomy, physics, fossils, and more! Visit the Lohman Planetarium and explore the vastness of the universe.

### Week 3: June 28-July 2

9am-12pm  
**Beginner and Advanced Chess**  
Students new to the world of chess can spend the morning exploring the game while learning the basics. Already know how to play? Learn new strategies and techniques to improve your game and add to your skill level. Chess helps to develop critical thinking skills and improve creativity – both important to the STEM fields of science, technology, engineering, and mathematics. Don't let your opponent take your queen!

1pm-4pm  
**Welcome to Hogwarts**  
Experience all of the different classes and activities that the Hogwarts School of Witchcraft and Wizardry has to offer. Students will get the chance to be sorted into their houses, play Quidditch for their house, and learn about the fantastic beasts that roam the wizarding world.

### Week 4: No Classes July 5-9

### Week 5: July 12-16

9am-4pm  
**Claymation Movie Making**  
Claymation Movie Making is back! Utilizing storyboarding, set design, construction, and Claymation animation, participants will create original Claymation productions. Learn about the editing and production techniques that will inspire your budding animators of the 21st century. Learn how to sculpt, create soundtracks, design titles, and use digital cameras.

### Week 6: July 19-23

9am-12pm  
**CSI Daytona**  
Do you have what it takes to become a criminal detective? Investigate the science behind dusting for fingerprints and figure out how to identify clues and crack codes. Learn how to enter a crime scene, find clues, and interview witnesses. Discover how police detectives use evidence to solve and unravel mysteries.

1pm-4pm  
**Classic Games**  
There are so many great games of skill, strategy, and reasoning. All of these games promote critical thinking but are also an absolute blast from the past! Your child will learn great games of skill and more by playing classic games like Chinese Checkers, Yahtzee, Dominoes, and even a few vintage computer games. Enjoy a classic games party on the final day!

### Week 7: July 26-30

9am-4pm  
**Short Movie Making**  
Learn to use digital effects and create wild and wacky videos. This one-of-a-kind class will teach your young film director how to create a storyboard, edit their film digitally, use digital video cameras, set up tripods, and create soundtracks using Garage Band. At the end of the week, the film students will have a red carpet premiere in the Root Family Auditorium.

### Week 8: August 2-6

9am-12pm  
**Sensational Science**  
Science makes the world go round! Learn about a new branch of science every day, from paleontology and physics to astronomy, biology, and more! Your young scientist will learn through hands-on experiences the science of electricity using circuit boards, Newton's Laws, astronomy through visits to the Lohman Planetarium to soar through the depths of the universe, hands-on work with fossils, and more.

1pm-4pm  
**Excelsior Comic Book Creation**  
Creating a comic book can be fun! Learn the skills and techniques involved in creating, penciling, inking, and coloring your very own comic book character. Students in this class will create their own superhero or character and write their own adventures. The only limitation is your imagination in this new and exciting class!

## Thank you to 2021 Summer Learning Institute Scholarship Sponsors:

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# SPRING EXHIBITS



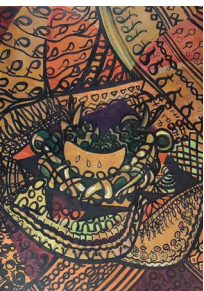
**MIDWAY: PORTRAIT OF A DAYTONA BEACH NEIGHBORHOOD**  
OPEN THROUGH APRIL 11, 2021  
L. GALE LEMERAND WING

Gordon Parks was an American photographer, musician, writer, and film director. In 1943, while working for the Office of War Information, Gordon Parks was given an assignment to travel to Daytona Beach, to photograph the renowned African American educator and activist Mary McLeod Bethune, and her surroundings. The pictures he took capture a time of imminent and momentous change. Image Credit: Gordon Parks, 1943, Daytona Beach, Florida, January 1943, Bethune-Cookman College, girl welder in the National Youth Administration school. 14865-C, photograph from original negative. Museum Purchase. 99.01.032



**FRESH OFF THE EASEL: WATERCOLORS BY FRANK SPINO**  
OPEN THROUGH MAY 30, 2021  
NORTH WING CORRIDOR

One of our area's most accomplished watercolorists, Frank Spino has achieved signature status in the National Watercolor Society, the Transparent Watercolor Society in America, the Southern Watercolor Society, and the Florida Watercolor Society. In addition to national shows, he has exhibited in juried and invitational international shows in Canada, China, Greece, Hungary, Italy, and the Netherlands. With Still Lifes as his specialty, Frank Spino brings vibrant radiance to the simplest of subjects. Image Credit: Frank Spino, Key Lime #1, Watercolor on paper, Courtesy of the artist



**WOMEN ARTISTS FROM THE RODRIGUEZ COLLECTION**  
OPEN THROUGH APRIL 25, 2021  
FORD GALLERY

A selection of contemporary works in a variety of media coming to the Museum of Arts & Sciences from the Kendall Art Center in South Florida. Highlighting the tremendous diversity in the Miami Metro area, this exhibition showcases the vibrant artistic energy of women artists from many cultural backgrounds who have been collected by Cuban-born American businessman Leonardo Rodriguez and his family. Image Credit: Amelia Pelaez (Cuban, b. 1896-1968), Still Life, 1945; gouache on paper, Collection of Leo Rodriguez, Courtesy of the Kendall Art Center



**EXCEPTIONAL: THE ART OF JILL CANNADY**  
OPEN THROUGH MAY 2, 2021  
GARY R. LIBBY ENTRY COURT & KARSHAN CENTER FOR GRAPHIC ART

Jill Cannady has been painting and drawing her primarily figurative works for decades throughout her successful artistic career in Florida. Truly "exceptional," her works are often funny or ironic and always full of movement and life and never fail to evoke a response from the viewer. She works in many media from drawing, painting, collage, sculpture, and ceramics. Always surprising, her works depicting animals, humans, humorous objects or highly symbolic still lifes either stun for their audacity or startle for their ferocity. This exhibition brings a representative selection of her long, varied and award-winning career to Daytona Beach. Image Credit: Twist, charcoal and acrylic wash on stretched canvas. 60x40" Courtesy of the artist.



**HOME: PAINTINGS BY SARA PEDIGO**  
OPENING MAY 8 - JULY 24, 2021  
GARY R. LIBBY ENTRY COURT

An exhibit that highlights Sara's preference for painting her daily life around her, in particular, in her home. Her beautifully composed, unassuming scenes of her bedroom, living room, kitchen and porches have a surprising depth and strength to them and remind us that "home" is a very powerful concept indeed. Image Credit: Sara Pedigo, "Solitary Light," oil on canvas. Courtesy of the artist.



**TIME HONORED: THE ART OF DEAN MITCHELL**  
OPENING MAY 8, 2021 THROUGH SEPTEMBER 12, 2021  
KARSHAN CENTER FOR GRAPHIC ART

Dean L. Mitchell was born in 1957 in Pennsylvania and reared in Quincy, Florida. A graduate of the Columbus College of Art & Design in Columbus, Ohio, he has developed a style and vision in his body of work that shows the deep American South few have seen, and certainly, fewer have decided to record. While well known for his figurative works, landscapes and still lifes, it is haunting scenes of rundown barns, abandoned farmscapes, and small towns in the rural South that seems to capture a time long past and resonate within the nostalgic memories of all of us. For even city folk at one time in their lives have had a rural experience that left its mark. Dean Mitchell's paintings - primarily in watercolor - remind us that this history belongs to all of us and these forgotten places have many stories to tell. Image Credit: Dean Mitchell, "Tobacco Barn," 2018, watercolor on paper. Courtesy of the artist.



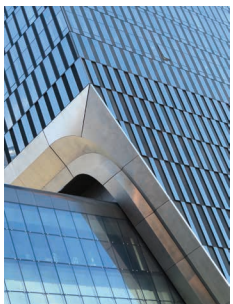
**EYES IN THE SKY: THE WORLD OF AERIAL DRONES**  
OPENING MAY 8, 2021  
THROUGH AUGUST 1, 2021  
FORD GALLERY

Drones have rapidly made their way into every facet of our lives. From sophisticated drones flying in the military, aiding in search and rescue efforts after natural disasters, efficiently fertilizing farmer's crops, taking high resolution pictures and video from unique vantage points, nimbly maneuvering around obstacles in exciting races, and even flying on other worlds within our Solar System, these unmanned aerial vehicles, or UAVs, continue to progress and evolve in interesting ways. We explore this fascinating technology in this exhibit, as we display a diverse array of drones and illustrate how these vehicles are being relied upon for many different applications. Image Credit: Seth Mayo / MOAS



**IN THE STYLE OF THE EMPEROR: NAPOLEONIC DECORATIVE ARTS FROM THE COLLECTION**  
OPEN THROUGH MAY 24, 2021  
BOUCHELLE CHANGING GALLERY

2021 marks the bicentennial of the death of France's most famous ruler in the past, Napoleon Bonaparte I. This exhibition contains examples of the many types of objects in the MOAS collection that touch on the reign of this incredibly influential leader who sponsored a comprehensive movement known as Neoclassicism in early 19th century French art. Paintings, sculpture, and works on paper will join furniture, porcelain, glass, decorative fans, and ephemera in this look at the pervasive influence of this highly consequential historical figure. Image Credit: Germany, 19th Century, Plaque with Portrait of Napoleon I, porcelain, enamel. Gift of Kenneth Worcester Dow and Mary Mohan Dow. 94.01.496



**SEEING DIFFERENTLY: PHOTOGRAPHY BY MARGO KESSLER COOK**  
OPEN THROUGH JULY 18, 2021  
ROOT HALL

Margo Kessler Cook, is a Fine Art International award-winning photographer. She is also a self-taught artist who has worked in printmaking, fabric design, and metalsmithing. Her approach to photography is that of a quiet observer who discovers interesting things in ordinary places, shedding light onto subjects that many times go unnoticed. Cook is known for her architectural images, often in black and white. She often takes the language of shapes, forms, and lines creating abstract compositions giving the photograph a degree of independence from the normal visual reference. Image Credit: Margo Kessler Cook, Angles on the Hudson, color photograph, Courtesy of the artist



**AMERICAN EMPIRE**  
OPENING JUNE 5, 2021 THROUGH NOVEMBER 7, 2021  
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, prints, 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



**CHARTING THE CELESTIAL LANDSCAPE**  
OPENING JUNE 5, 2021 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 Jamieson (1782-1850), Celestial Chart - Andromeda, Perseus, Triangula. Gift of Malcom C. Babb.

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## CURRENTLY ON DISPLAY IN 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](http://MOAS.org) for the latest updates on these upcoming events.

## 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.

## APRIL

### Thursday, April 8 11:00am-12:00pm VIRTUAL LECTURE: Members-Only Coffee with a Curator | Parks and Rec

Grab your coffee and join MOAS Senior Curator of Education and History, Zach Zacharias virtually on ZOOM for a history and nature tour as he highlights some of the county, state, and national parks in Volusia and Flagler Counties. Our area has wonderful parks and many different environments and activities. Some of them are well known and others are off the beaten path. Learn about the cultural and natural history as well as different outdoor activities at Lake Colby Park, Lake Woodruff National Wildlife Refuge, Gemini Springs, Smyrna Dunes Park, Seminole Rest, Princess Place Estates, and others. Register online at [MOAS.org](http://MOAS.org) or by calling the Museum at 386-255-0285. Must be a MOAS member to attend. Free for members.

### Saturday, April 10 7:00pm-8:45pm Saturday Laser Rock Concert

7:00pm Pink Floyd - The Wall  
8:00pm Rush 2112  
\$5.00 for one show and \$7.00 for two shows. 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.

### Wednesday, April 14 3:00pm-4:00pm American Paintings through the Eyes of a Realist

Join us at the Museum of Arts & Sciences for a tour of the paintings within the Dow Gallery of American Art with Senior Curator of Education and History, Zach Zacharias, and master landscape artist, Arnold Desmarias. Amazing landscapes, still lifes, and portraits reside in the collection from some of the great American painters. Learn about the detailed process of realism and explore the time-honored traditions of the old masters necessary to create compelling work. Free for members or with paid museum admission.

### Thursday, April 15 2:00pm-3:30pm VIRTUAL Florida Vistas Book Club: A Journey into Florida Railroad History by Gregg M. Turner

Join us for our next Florida history book club meeting virtually on ZOOM where we will be discussing *A Journey into Florida Railroad History*. It is safe to say that without railroads, Florida wouldn't be what it is today. Railroads connected the state's important cities and towns, conquered the peninsula's vast and seemingly impenetrable interior, ushered in untold numbers of settlers and tourists, and conveyed to market - faster than any previous means of transportation - the myriad products of Florida's mines, forests, factories, farms, and groves. Gregg Turner traces the long, slow development of Florida railroads, from the first tentative lines in the 1830s, through the boom of the 1880s, to the maturity of the railroad system in the 1920s. At the end of the decade, nearly 6,000 miles of labyrinthine track covered the state. Turner also examines the decline of the industry, as the automobiles rose to prominence in American culture and lines were abandoned or sold for hiking trails and green spaces. Advanced RSVP is required by registering online at [MOAS.org](http://MOAS.org) or by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

### Thursday, April 15 5:30pm-7:30pm Wine Tasting: Deciphering French Wine

Join us at the Cici and Hyatt Brown Museum of Art for the return of our wine tasting series with S.R. Perrott. Spend the evening among friends while you sip up knowledge on swirling, tasting, and describing wine and learn about different pairings of light appetizers from Ravish Catering. This quarter's program will feature six wines from different regions in France. This event is for ages 21 and older. Seating is limited and advanced registration is required. Visit [MOAS.org](http://MOAS.org) or call 386-255-0285 to purchase your admission. \$30.00 for members, \$40.00 for future members.

### Thursday, April 22 6:00pm-7:00pm VIRTUAL LECTURE: Mars Perseverance Rover Update

Join our MOAS Curator of Astronomy, Seth Mayo, for a virtual talk on ZOOM as he provides an update on the goings-on of NASA's new Perseverance rover on Mars. Seth will highlight the exciting, and scary, landing that this new rover successfully completed, and the road ahead as Perseverance searches for past signs of microbial life within the Jezero Crater. Register online at [MOAS.org](http://MOAS.org) or by calling the Museum at 386-255-0285. Free for members, \$7.00 for future members.

### Saturday, April 24 4:00pm-5:00pm Special Planetarium Presentation: Mars Perseverance Rover Update

Join our MOAS Curator of Astronomy, Seth Mayo, in the Lohman Planetarium as he provides an update on the goings-on of NASA's new Perseverance rover on Mars. Seth will highlight the exciting, and scary, landing that this new rover successfully completed, and the road ahead as Perseverance searches for past signs of microbial life within the Jezero Crater. Free for members, \$5.00 for future members, or with paid museum admission.

### Monday, April 26 5:00pm-7:00pm VIRTUAL After Hours: In Partnership with The Locals Mix

Join us at the Museum of Arts & Sciences for exclusive after-hour access to all galleries, happy hour drink specials, and live music by Sammy Rose and DJ Jukebox Bully in partnership with The Locals Mix. Enjoy an artist talk by one of our area's most accomplished watercolorists, Frank Spino. Spino has achieved status in National and State watercolor societies. Join us in the North Wing Corridor as he describes his long love of watercolor as reflected in the beautiful still lifes of Florida's famous citrus in the exhibit *Fresh Off the Easel: Watercolors by Frank Spino*. Free for members, \$5.00 for future members.

### Friday, April 30 2:00pm-3:00pm Porch Talk at Gamble Place: James Gamble and the Gilded Age

The Museum has owned and operated the private hunting lodge of James Gamble of Proctor and Gamble fame since the 1990s. Located in Port Orange, James visited each year to hunt and fish with family and friends. Join MOAS Senior Curator of Education and History, Zach Zacharias at Gamble Place in Port Orange to learn about this cracker style home, the Black Forest Cottage, and some of the characters that made this property unique. Space is limited and advanced registration is required by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

## MAY

### Friday, May 7 12:00pm-1:30pm Lunch and Learn: Curator's Choice

Join MOAS Senior Curator of Education and History, Zach Zacharias at the Cici and Hyatt Brown Museum of Art to take a tour through the ecological and human history of Florida through the glorious landscapes on display. Travel from one end of the state to the other and learn about plants, animals, buildings, and historical sites. Call the Museum at 386-255-0285 to RSVP and place your lunch order. Space is limited and advance RSVP is required. Lecture is free plus the price of paid lunch for members. Lecture is \$5.00 plus the price of paid lunch for future members.

### Saturday, May 8 7:00pm-8:45pm Saturday Laser Rock Concert

7:00pm Laser Beatles  
8:00pm Laser Queen  
\$5.00 for one show and \$7.00 for two shows. 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.

### Wednesday, May 12 2:00pm-3:00pm Gallery Tour: Eyes in the Sky: The World of Aerial Drones

Join Curator of Astronomy, Seth Mayo, for a tour of the diverse array of drones we have on display in this exhibit. These small aerial vehicles have found a place in almost every aspect of our lives, all while being operated without a human on board. Seth will provide a comprehensive look at the technology behind these drones and how they are being used in interesting ways. Free for members or with paid museum admission.

### Thursday, May 13 11:00am-12:00pm VIRTUAL LECTURE: Members-Only Coffee with a Curator | Digital Trip to Mars – Perseverance Rover Update

Grab your coffee and join Curator of Astronomy, Seth Mayo virtually on ZOOM for an update on NASA's newest rover on Mars after its harrowing landing back in February. Seth will virtually fly to the Martian surface to discuss what Perseverance has accomplished so far, and how it will look for past signs of ancient microbial life forms. Register online at [MOAS.org](http://MOAS.org) or by calling the Museum at 386-255-0285. Must be a MOAS member to attend. Free for members.

### Friday, May 14 2:00pm-3:00pm Porch Talk at Gamble Place: Highway to Paradise – the History of Transportation in Florida

Florida has had a long history of important modes of transportation that have opened the state up to development. From the Old Kings Highway, steam boating on the St. John's River, and the interstate highway system, these infrastructural changes moved Florida from a frontier state to one of the most important. Join MOAS Senior Curator of Education and History, Zach Zacharias at Gamble Place in Port Orange to learn about the history of Florida through its unique modes of transportation. Space is limited and advanced registration is required by calling the Museum at 386-255-0285. Free for members, \$5.00 for future members.

### Tuesday, May 18 5:30pm-7:00pm Succulent Social with Lanipots

Join us in the Root Family Museum Train Station at MOAS for a creative night with Lanipots of Ormond Beach. Upon arrival, guests will have the opportunity to choose their own unique planting pot followed by hands-on instruction on how to build and maintain your own cactus and succulent garden. Seating is limited and advanced registration is required. Visit [MOAS.org](http://MOAS.org) or call the Museum at 386-255-0285 to purchase your admission. \$35.00 for members, \$40.00 for future members.

### Thursday, May 20 2:00pm-2:45pm Drone Flight Demonstration by Spirit Drone Services

Join our special guest, Robert Brock, from Spirit Drone Services based in South Daytona, as he provides a drone flight demo in conjunction with our exhibit, *Eyes in the Sky: The World of Aerial Drones*. Robert will explain the work he performs using drones for commercial photography as he flies them outside on our MOAS front entry courtyard. Free to the public.

### Thursday, May 20 2:00pm-3:30pm VIRTUAL Florida Vistas Book Club: The Water Carrier by Charles Martin

Join us for our next Florida history book club meeting virtually on ZOOM where we will be discussing *The Water Carrier*. Murphy Shepherd is a man with many secrets. He lives alone on an island, tending the grounds of a church with no parishioners, and he's dedicated his life to rescuing those in peril. But as he mourns the loss of his mentor and friend, Murph himself may be more lost than he realizes. When he pulls a



beautiful woman named Summer out of Florida's Intracoastal Waterway, Murph's mission to lay his mentor to rest at the end of the world takes a dangerous turn. Drawn to Summer, and desperate to find her missing daughter, Murph is pulled deeper and deeper into the dark and dangerous world of modern-day slavery. With help from some unexpected new friends, including a faithful Labrador he plucks from the ocean and an ex-convict named Clay, Murph must race against the clock to locate the girl before he is consumed by the secrets of his past - and the ghosts who tried to bury them. Advanced RSVP is required by registering online at [MOAS.org](http://MOAS.org) or by calling the Museum at 386-255-0285.

Free for members, \$5.00 for future members.

**Friday, May 21**  
**6:00pm-9:30pm**  
**MOAS Astronomy Night at the Ballpark**  
Join the Museum of Arts & Sciences for a special night at the Jackie Robinson Ballpark! Be sure to be one of the first 500 fans at the ballpark to receive a free Astronomy Night t-shirt! Gates open at 6:00pm and the Tortugas will take on the Jupiter Hammerheads at 7:05pm. Following the game, there will be a special live night sky tour with MOAS Curator of Astronomy, Seth Mayo where we will be looking at the prominent spring stars and constellations that are high in the sky during this time of year. Early in the evening, we will find the leftover winter constellation, Gemini, that lies towards the west with the red planet Mars situated inside it. Gazing high up, we will go over the bright stars of Leo the Lion, while the waxing gibbous Moon lies near its tail. The springtime brings us the brightest star in the northern celestial sky known as Arcturus, that we will easily find in the east. We will also take a look at the northern sky where the Big and Little Dipper lie, and explain how to find the North Star with these famous celestial shapes. Check <https://www.milb.com/daytona> for when game tickets become available for purchase.

**Wednesday, May 26**  
**3:00pm-4:00pm**  
**Gallery Tour: *In the Style of the Emperor: Napoleonic Decorative Arts from the Collection***  
Join Chief Curator / Gary R. Libby Curator of Art, Ruth Grim and Senior Curator of Education and History, Zach Zacharias for a tour of this important Napoleonic collection of art. Napoleon sponsored a comprehensive movement known as Neoclassicism in early 19th century French art. Paintings, sculpture, and works on paper will join furniture, porcelain, glass, decorative fans, and ephemera in this look at the pervasive influence of this highly consequential historical figure. Free for members or with paid museum admission.

**Saturday, May 29**  
**2:00pm-3:00pm**  
**Gallery Tour: *Eyes in the Sky: The World of Aerial Drones***

Join Curator of Astronomy, Seth Mayo, for a tour of the diverse array of drones we have on display in this exhibit. These small aerial vehicles have found a place in almost every aspect of our lives, all while being operated without a human on board. Seth will provide a comprehensive look at the technology behind these drones and how they are being used in interesting ways.

Free for members or with paid museum admission.

JUNE

**Wednesday, June 9**  
**6:00pm-7:30pm**  
**VIRTUAL LECTURE: Evening with Florida History**  
 A virtual evening with Florida History on ZOOM.  
 Register at [MOAS.org](https://moas.org) or by calling the Museum at 386-255-0286.  
 Free for members, \$7.00 for future members

## U-Boats, Saboteurs, and Orange Groves: Florida in World War II

Join World War II historian, Ryan Lowry virtually on ZOOM to learn about Florida's role in World War II which was far more consequential to the safety of the United States than people realize. Once the war broke out, Germany was probing America's doorstep with submarines and saboteurs. At the time, Florida was the largest state surrounded by water and America increased its defense by creating air bases and naval bases to combat enemy intrusion. Pensacola grew to be a major military base for training men for the conflict overseas and pilots would learn how to operate aircraft for service in the Pacific and Europe. The state also became a haven for German prisoners of war from North Africa and a scene for sinking merchant vessels bound for England. Learn how Florida was necessary in the defense of the mainland United States against Nazi tyranny and how it would help win the largest war in history.

**Spanish American War in Florida:  
A Story of Chaos**

Join Senior Curator of Education and History, Zach Zacharias virtually on ZOOM for a presentation on the Spanish American War that unfolded in Cuba in 1898 and how Florida dealt with an international war only 90 miles away. Many cities in Florida were used as staging areas for the invasion of Cuba. This talk includes Tampa, Miami, Jacksonville, Key West, and the chaos that was created by the U.S. Army moving into the state.

**Thursday, June 10**  
**11:00am-12:00pm**  
**VIRTUAL LECTURE: Members-Only Coffee**  
**with a Curator | with Special Guest, Dean Mitchell**

Grab your coffee and join Chief Curator / Gary R. Libby Curator of Art, Ruth Grim and artist, Dean Mitchell for a special interview. Learn all about the new exhibition, *Time Honored: The Art of Dean Mitchell* from the artist himself. Register online at [MOAS.org](http://MOAS.org) or by calling the Museum at 386-255-0285. Must be a MOAS member to attend.

Free for members.

**Saturday, June 12**  
**11:00am-11:45am**  
**Drone Flight Demonstration by Spirit Drone Services**

Join our special guest, Robert Brock, from Spirit Drone Services based in South Daytona, as he provides a drone flight demo in conjunction with our exhibit, *Eyes in the Sky: The World of Aerial Drones*. Robert will explain the work he performs using drones for commercial photography as he flies them outside on our MOAS front entry court. Free to the public.

**Saturday, June 12**  
**7:00pm-8:45pm**  
**Saturday Laser Rock Concert**  
 7:00pm Laser Zepppelin  
 8:00pm Pink Floyd - The Dark Side of the Moon  
 \$5.00 for one show and \$7.00 for two shows.  
 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.

**Thursday, June 17**  
**2:00pm-3:30pm**  
**VIRTUAL Florida Vistas Book Club: *Yamato Colony: The Pioneers who brought Japan to Florida* by Ryusuke Kawai**  
Join us for our next Florida history book club meeting virtually on ZOOM where we will be discussing *Yamato Colony: The Pioneers who brought Japan to Florida*. Opening a window onto the little-known Japanese-American heritage of Florida, *Yamato Colony* is the true tale of a daring immigrant venture that left behind an important legacy. Ryusuke Kawai tells how a Japanese farming settlement came to be in south Florida, far from other Japanese communities in the United States. Kawai's captivating story takes readers back to the early twentieth century, a time when Japanese citizens were beginning to look to possibilities for individual wealth and success overseas. Poor, unlucky in love, and dreaming of returning rich to marry his sweetheart, a young man named Sukeji Morikami boarded a passenger steamer at the port of Yokohama and set off to make his fortune. Morikami was drawn by promises from his compatriot Jo Sakai, founder of an agricultural community called Yamato between Boca Raton and Delray Beach, Florida. Sakai extolled the prospects of raising pineapples and other crops amid the state's economic boom and exciting developments like Flagler's East Coast Railway. This book follows the experiences of Morikami and his fellow Yamato settlers through World War II, when the struggling colony closed for good. Morikami held on to his hopes for Yamato until the end, when at last, the lone survivor, he donated the land that would become the widely visited Morikami Museum and Japanese Gardens. Advanced RSVP is required by registering online at [MOAS.org](https://moas.org) or by calling the Museum at 386-255-0285.  
Free for members, \$5.00 for future members.

**Thursday, June 17**  
**6:00pm-8:00pm**  
**Cocktail Works: The Gin Series**

Start spreading the booze and mix up your Thursday night plans with a fun-filled evening with drink-slinging packed with history and recipes for you to enjoy at your own cocktail parties. Join Mark Woods, aka TikiTender, founder of Fun Coast Bartending at the Cici and Hyatt Brown Museum of Art for an interactive cocktail class complete with light appetizers. Explore the history behind some of the most popular gin cocktails like the Gimlet and Tom Collins while mixing up your own to enjoy. The grand finale will be a special cocktail presented by MOAS Executive Director, Andrew Sandall. This event is for ages 21 and older. Seating is limited and advanced registration is required. Visit [MOAS.org](http://MOAS.org) or call the Museum at 386-255-0285 to purchase admission. \$35.00 for members, \$40.00 for future members.



**Monday, June 28**  
**5:00pm-7:00pm**  
**MOAS After Hours: In Partnership with**  
**The Locals Mix**

Join us at the Museum of Arts & Sciences for exclusive after-hour access to all galleries, happy hour drink specials, and live music by The Common Foreigner and DJ Jukebox Bully in partnership with The Locals Mix. Guests can enjoy a special artist talk by Sara Pedigo as she describes her unique focus in the exhibition, *Home: Paintings by Sara Pedigo*, a topic that has renewed relevance for all of us. Sara Pedigo is a North Florida artist who records the seemingly insignificant moments of everyday life with great skill and affection as she paints mostly her home interior and environment. She is Department Chair of the Visual and Performing Arts at Flagler College in St. Augustine.

Free for members, \$5.00 for future members.

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A close-up, black and white photograph of a lion's face, focusing on its right eye which is a striking blue color. The lion's fur is detailed with spots and stripes. The image serves as the background for the top half of the advertisement.The logo for Brown & Brown Insurance. It features a dark blue square with a white border. Inside the square, the words "Brown & Brown" are written in a white, serif font, with the ampersand "&" centered between the two "Brown"s. Below this, the word "INSURANCE" is written in a smaller, white, sans-serif font. A small registered trademark symbol (®) is located at the bottom right of the word "INSURANCE".

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## Spring Fun and Fundraising

### *Garden Party, May Meeting, and More!*

We have started off 2021 with a full schedule of meetings and fundraising events. Our first event was our "My Closet to Yours" luncheon on February 9th. It was a wonderful day of visiting with friends while purchasing handbags, jewelry, and scarves. It was a huge success and I would like to thank this hardworking committee that included Judy Krombholz, Jennie Palmer, Joan Horneff, Zayna Gibson, and our chairman, Maureen Mahoney.

We hope you will join us on April 13th at the Cici and Hyatt Brown Museum of Art for our High

Society Garden Party Luncheon. The cost is \$40 per person which includes a delicious lunch buffet with a trio performing for your pleasure. There will be herbs and flowers available for purchase in the outdoor garden area. You may also want to shop in the speakeasy and sip prohibition cocktails from our cash bar. All of our fundraising event proceeds go directly to the Museum.

At our meeting on May 11th, we will be honoring our Veterans. The social will be at 10 am in Root Hall at MOAS and then we will meet in the Root Family

Auditorium for our meeting and guest speaker.

Mark your calendar for our annual Children's Museum Golf Classic on October 15th at the Club at Venetian Bay as well as our 59th Halifax Art Festival on November 6th and 7th on Beach Street in Daytona Beach.

The month of May will be our last meeting until September 14th. We look forward to seeing you this spring!

Diane Rogers | President



## High Society

### GARDEN PARTY

AT THE CICI AND HYATT BROWN MUSEUM OF ART  
TUESDAY, APRIL 13, 2021 | 11:00AM

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# EYES IN THE SKY: THE WORLD OF AERIAL DRONES



If you have ever heard a loud buzz in the sky and noticed a small oddly-shaped aircraft zipping around effortlessly, you may be one of many that have encountered a drone. You may even own one yourself, taking advantage of this rapidly developing technology that allows you to conquer the airspace just above your head.

Colloquially known as a drone in the public sphere, these vehicles are commonly defined as an aircraft without a human on board. Even though drones can represent vehicles that operate in the water or on the ground, they are usually associated with aviation, with many today designed as small multicopters (multiple rotor blades) with some type of attached camera system. They can also be remotely-controlled or operated autonomously, depending on the particular design.

Technically speaking, within professional aviation, governmental institutions, and academia, a drone is typically known as an unmanned (also uncrewed) aerial vehicle, or UAV. If you include the UAV, ground systems, communications, controls, and any other related technology, the entire package is collectively called an unmanned aerial system, or UAS.

The 21st century ushered in a new era for UAVs as they exploded in popularity and

availability, when stabilization systems were advanced, computers and hardware miniaturized, batteries became more efficient, and costs plummeted. Stabilization advancements became supremely important in this accessibility, enabling any shape of vehicle to be designed without as much concern about aerodynamics, enabling anyone to fly them with ease. Small, remote-controlled airplanes have been a hobbyist favorite for many decades, but the skill required to fly these aircraft and high costs to maintain the equipment, have been a major barrier to entry for most of the general public.

With this explosion of popularity and increased accessibility, aviation regulation in the U.S. and around the world has only just begun to take hold as concerns for the public's safety on the ground, collisions with other aircraft and property, and privacy issues, are now being fully realized. In the last decade, the U.S. Federal Aviation Administration (FAA) began to limit where and when drones could be operated, requiring many to be registered above a certain size, and even mandating pilot certification in certain use cases.

With all of this considered, drones have found a huge niche in our society when it comes to their applications. UAVs have buzzed their way into

almost every industry and commercial enterprise, and are even finding use off-world in tantalizing ways.

There are now a multitude of reasons why drones are being used today.

## MILITARY

As with many advanced technologies, the history of drones primarily began with military applications. The term "drone" may have derived in the World War I era, when the use of the word referred to early aircraft that were radio-controlled from the ground and used as target practice.

Real wartime use began in World War II, as flights of radio-operated aircraft to drop bombs on various targets were attempted and remote-controlled missiles began being launched.

Military drones, as we know them currently in the U.S., really saw deployment in the 1990s during the Gulf War, since the burgeoning Global Positioning System (GPS) could be relied upon, and advancements in computer technology had increased their capabilities.

Shortly after the Gulf War, the Predator, Global Hawk, and Reaper drones became well known as remotely-controlled reconnaissance and missile-launching aircraft in

been deployed to scatter seeds and fertilizer over large areas very quickly and efficiently. Utilizing GPS, laser guidance systems, and various sensors and cameras, they can be programmed to autonomously complete this work with minimal human interaction.

In more dangerous situations, drones can be vital during inspection operations. High transmission power lines that criss-cross large swaths of uninhabited areas need to be checked from time-to-time, and using drones to assist with this work has shown to lower costs and provide a safer way to do so.

The same goes for the long stretches of oil pipelines that are in very remote areas, and inspection by drones using infrared cameras has been quite useful.

In the green industry, large solar farms and even wind turbine blades have benefited from UAVs as they can access hard to reach areas for inspection in a timely manner. The tedious nature of many of these operations can be eliminated by sending a drone up to take care of the work.

To expand their reach even more, Amazon has been developing a drone package delivery system known as Prime Air, which aims to bring goods purchased by customers within 30 minutes of the order time. This program is still being assessed by the FAA and has yet to be fully implemented.

modern conflicts around the world - now collectively called unmanned combat aerial vehicles, or UCAVs.

These vehicles look more like traditional aircraft without the cockpit on board, and have been relied upon to alleviate risk to a pilot's life while being flown from an alternate location without the constraints of normal human endurance.

## INDUSTRIAL APPLICATIONS

UAVs have found a critical role in many different industries and for very unique reasons.

In farming and agriculture, drones have been flown to survey land for potential crops, and some have even



THIS EARLY PHOTOGRAPH TAKE CA. 1938 CAPTURES A U.S. NAVY CURTISS N2C-2 FLEDGLING THAT WAS CONVERTED TO RADIO-CONTROLLED TARGET DRONE. EARLY MILITARY DRONES WERE COMMONLY USED AS TARGET PRACTICE FOR HUMAN PILOTED AIRCRAFT. IMAGE CREDIT: U.S. NAVY

## AERIAL VIDEO AND PHOTOGRAPHY

As drone vehicles continue to be miniaturized, so have imaging technology. High resolution cameras are quite common and can easily fit onboard even the smallest of drones.

Journalism has certainly benefited from this technology, where cameras can be sent to very unique, and sometimes dangerous, locations to capture the right shot for the story.

Not only are the cameras very small, but drones that utilize multiple rotors can take advantage of very effective stabilization systems that are built into the computer hardware. This means that footage from the air — even when the drones are moving at high speed and in different directions — can look perfectly smooth.

TAKING ADVANTAGE OF THEIR CAMERA SYSTEMS AND HIGH STABILITY, MULTIROTOR DRONES HAVE BEEN QUITE USEFUL IN AGRICULTURE AS THEY CAN APPLY FERTILIZER AND EVEN SEEDS FOR CROP GROWING. IMAGE CREDIT: AGRIDRONES SOLUTIONS ISRAEL







FIRST FLOWN IN 1998, THE U.S. AIR FORCE NORTHROP GRUMMAN RQ-4 GLOBAL HAWK IS STILL RELIED UPON AS A REMOTELY-CONTROLLED RECONNAISSANCE DRONE THAT IS SUITED FOR VERY HIGH ALTITUDE, LONG DURATION FLIGHTS. PILOTING THESE VEHICLES FROM THE GROUND HAS ALLEVIATED THE CONSTRAINTS OF HUMAN ENDURANCE WITHOUT THE RISK TO LIFE. GLOBAL HAWKS HAVE ALSO BEEN USED EXTENSIVELY BY NASA FOR HURRICANE AND SEVERE STORM STUDIES UNDER THE HS3 MISSION. IMAGE CREDITS: U.S. AIR FORCE/BOBBI ZAPKA/NASA GODDARD SPACEFLIGHT CENTER

This type of technology has been a major boon for filmmaking of all types, where helicopters carrying a filming crew or cameras perched on large cranes were the only solutions in the past.

Shooting video and still images for large gatherings like concerts, sporting events, and even weddings, have relied upon drones to capture every moment with ease and from interesting perspectives.

## LAW ENFORCEMENT AND SEARCH/RESCUE OPERATIONS

Extra eyes in the sky have also found their way into police departments and search and rescue teams across the U.S.

As cost saving is a common theme among many of these applications, drones have been used as an alternative — or at least as support — for full size helicopters that would typically be used by police for various operations.

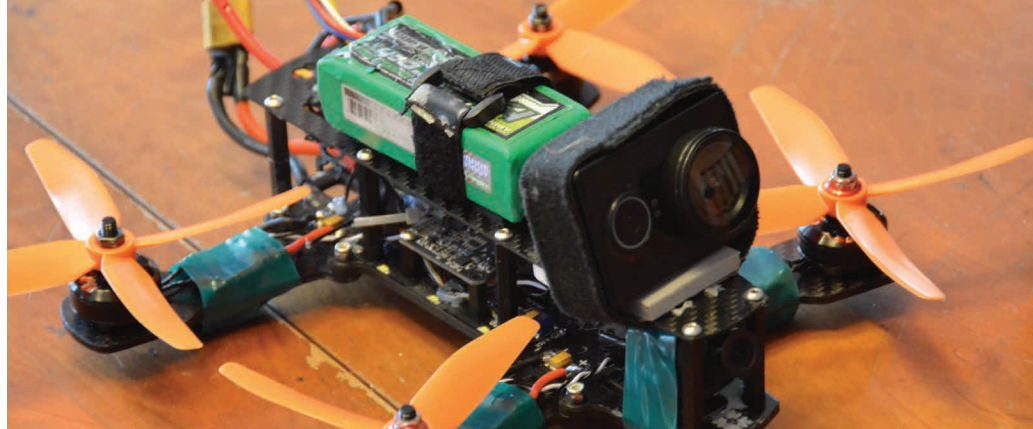
After major disasters, particularly floods and hurricanes, drones have even been lifesaving as they are

flown to hazardous areas to search for survivors that need to be rescued. These aerial vehicles can serve as the first wave of support as a natural disaster can render an area very dangerous for search teams.

Assessing damage after a hurricane or a tornado have made UAVs an important tool in the recovery and rebuilding process as well.

## RECREATION AND ENTERTAINMENT

The drone market is particularly geared toward those who use drones as recreation. Just as a hobbyist would fly RC airplanes (which can be categorized as a UAV) for enjoyment, so can the modern-day drone that can be easily purchased online and at very low price.



THE HIGH OCTANE SPORT OF FPV (FIRST-PERSON VIEW) DRONE RACING HAS QUICKLY BECOME A POPULAR HOBBY BY MANY UAV ENTHUSIASTS. THESE TINY DRONES, FITTED WITH CAMERAS AT THE NOSE OF THE VEHICLE, GIVES OPERATORS ON THE GROUND A FIRST-PERSON PERSPECTIVE AS THEY WEAR A HEAD MOUNTED DISPLAY. THIS ALLOWS THESE DRONES TO BE PILOTED WITH PRECISE CONTROL AS THEY ZOOM AROUND OBSTACLES DURING TIME TRIALS. IMAGE CREDIT: WIKIMEDIA COMMONS / USER: COMMANDERBRYCE

Many of these affordable drones allow the operator to use their own phone as a remote control and have been adapted for use for most ages and skill levels.

For many, being able to fly around to get a bird's eye view of a nearby area via the onboard camera, is worth the experience.

This idea has been taken to the next level with the relatively new sport of drone racing, which traces its roots back to Germany in 2011.

Very small, and high powered drones have cameras attached to the front of the vehicle, and a drone pilot on the ground can wear a head mounted display to provide a first-person view as they race through obstacles at outdoor arenas and even inside large warehouses at very high speed. This quickly growing sport is known as FPV (first-person view) drone racing and is becoming quite popular as the technology is improving and the price of entry is going down.

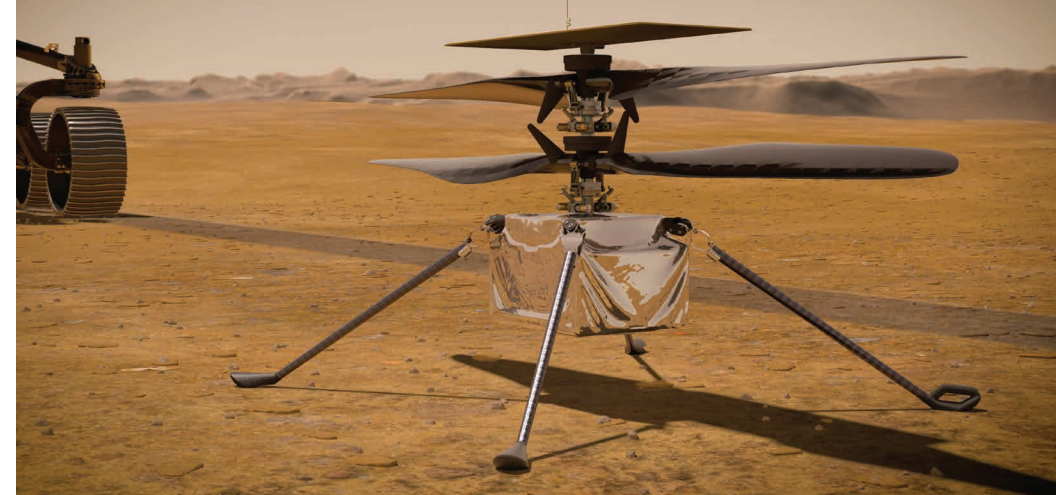
Another relatively new form of skyward entertainment, are the elaborate aerial dances that can be choreographed by hundreds of tiny drones fitted with LED lights. Using advanced computer control and AI, it is now possible for amazing light displays to be shown as the drones move around quickly in tight formation, collectively creating interesting shapes and figures that seem to defy physics.

## SPACE EXPLORATION

Perhaps one of the most cutting edge and exciting uses of drones are their application in spaceflight and Solar System exploration.

Almost any robotic spacecraft traveling millions of miles through space without a human on board could be considered a drone, but there are some recent vehicles that fit the bill a little more closely.

A top secret spaceplane, known as the Boeing X-37B Orbital Test Vehicle, has been launched on orbital flights around the Earth. This space UAV looks like a miniature Space Shuttle, and is designed fairly similarly as it is launched like a rocket and lands back on Earth as a glider, all without a human pilot. So far, there have been six flights of these vehicles, with some



ARTIST'S ILLUSTRATION OF NASA'S INGENUITY DRONE HELICOPTER AFTER IT WAS DROPPED OFF BY THE NEWLY LANDED PERSEVERANCE ROVER ON THE SURFACE OF MARS. THIS FOUR POUND DRONE AS BEEN MAKING SHORT TEST FLIGHTS AND TAKING AERIAL PHOTOS OF THE MARTIAN TERRAIN, WHICH SERVES AS A TECHNOLOGY DEMONSTRATOR FOR FUTURE AIRCRAFT ON THE RED PLANET. INGENUITY WAS DESIGNED WITH LARGE ROTOR BLADES AND TO OPERATE AT VERY HIGH RPMS TO FLY IN THE EXTREMELY THIN MARTIAN ATMOSPHERE, ALLOWING IT TO PERFORM THE FIRST POWERED FLIGHT ON ANOTHER WORLD. IMAGE CREDIT: NASA/JPL-CALTECH

of them staying in orbit for more than a year. The X-37B is operated by the U.S. Air Force Space Command, and its activities and objectives are still highly classified. Although this program is shrouded in secrecy, it has highlighted how UAVs in space may be useful in the future.

One of the most exciting, and drone-like, vehicles currently off the Earth is the Ingenuity helicopter drone that was carried aboard NASA's Perseverance rover, which landed successfully on Mars on February 18, 2021. By the time of publication of this article, Ingenuity may have already made the first powered flight on another world — a sort of uncrewed “Wright brothers moment.”

This planetary drone consists of a small fuselage in the shape of a cube, with four small legs and two large counter rotating carbon fiber blades on top. Engineers designed the rotor blades to be quite long for the drone's size and to rotate much faster than a typical helicopter, due to the very thin Martian atmosphere. The surface of Mars is like being 100,000 feet up in Earth's atmosphere, so this drone had to be built to operate in that type of environment. Ingenuity will make a series of short flights and take images from the air as reconnaissance, mostly serving as a technology demonstrator for future vehicles that may fly on the Red Planet.

NASA also has plans to reach even farther out into the Solar System by

sending a drone to one of Saturn's moons. Still in development is the Dragonfly mission, which will bring a VTOL (vertical takeoff and landing) drone to the surface of the moon, Titan, possibly by 2036.

Titan is a unique world, with a thick nitrogen atmosphere, covered with lakes of methane, and possible subsurface water. The Dragonfly drone will be able to fly to scientifically important locations on this cold, but interesting world, to assess its potential for habitability and study its geology and chemistry.

## DRONES ARE HERE TO STAY

There are countless more applications and uses of UAVs throughout many different areas of our lives, and this will continue to be so in the future. As we grapple with the implications of this technology over time, it will certainly be interesting to watch how these vehicles will be integrated into our society - on Earth and beyond.

To explore the fascinating world of drones, our new temporary exhibit, *Eyes in the Sky: The World of Aerial Drones*, running from May 8th to August 1st, will provide a closer look at how this technology is used in our everyday lives through various displays and UAVs within our Ford Gallery.





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