### EXECUTIVE COMMITTEE

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Company/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chuck Beverly</td>
<td>Senior Vice President, Senior Relationship Manager, Bank of America Merrill Lynch</td>
</tr>
<tr>
<td>Patrick Aland</td>
<td>Senior Vice President, Presidio</td>
</tr>
<tr>
<td>Nirav Pandya</td>
<td>President &amp; CEO, Orion Technologies</td>
</tr>
<tr>
<td>Julie Tyk</td>
<td>Attorney, Pearson Hoyle Mohre and Pastis, LLP</td>
</tr>
<tr>
<td>Amy Chapman</td>
<td>CPA, CFE, Principal, CliftonLarsonAllen, LLP</td>
</tr>
<tr>
<td>Dr. Wes Naylor (Capt.)</td>
<td>President &amp; Managing Partner, Fifty Pound Brains, LLC</td>
</tr>
<tr>
<td>Joseph Durso</td>
<td>Vice President for Community &amp; Government Affairs, Embrace Families</td>
</tr>
<tr>
<td>Dr. Richard Signer</td>
<td>Pediatric Surgeon, Retired AdventHealth for Children</td>
</tr>
<tr>
<td>Rina Patel</td>
<td>Founder, Rose’ Girls</td>
</tr>
</tbody>
</table>

### VOTING TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Company/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jim Atchison</td>
<td>President and CEO, Retired SeaWorld Parks &amp; Entertainment</td>
</tr>
<tr>
<td>Chris Bowman</td>
<td>Director, Distribution Design Engineering, Duke Energy</td>
</tr>
<tr>
<td>Karoom Brown</td>
<td>Chief Strategy, Products &amp; Growth Officer, OptumServe</td>
</tr>
<tr>
<td>Chris Carmody</td>
<td>Government Relations Attorney, Gray-Robinson</td>
</tr>
<tr>
<td>Jim Cross</td>
<td>Managing Partner, BDO</td>
</tr>
<tr>
<td>Teddy Dover</td>
<td>Young Professionals Chair, Orlando Science Center</td>
</tr>
<tr>
<td>Devin Elmore</td>
<td>VP, IT Governance &amp; Information Security, Universal Orlando</td>
</tr>
<tr>
<td>Gary Heath</td>
<td>Director of Business Analysis, Massey Services</td>
</tr>
<tr>
<td>Rachel Hutter</td>
<td>Sr. Vice President, International Facilities &amp; Operations, Walt Disney World</td>
</tr>
<tr>
<td>Michelle Jenkinson</td>
<td>Director of Fan Experience and Operations, Orlando Magic</td>
</tr>
<tr>
<td>Dr. Sarah Layton</td>
<td>CEO and Managing Partner, Corporate Strategy Institute, Inc</td>
</tr>
<tr>
<td>Rusty McCranie</td>
<td>Meteorologist, WFTV Channel 9</td>
</tr>
<tr>
<td>Esther McKean</td>
<td>Partner, Akerman, LLP</td>
</tr>
<tr>
<td>Tom Mirek</td>
<td>Vice President of Engineering &amp; Technology, Lockheed Martin</td>
</tr>
<tr>
<td>Marilyn Moran</td>
<td>Partner, FordHarrison, LLP</td>
</tr>
<tr>
<td>Barton Morrison</td>
<td>Associate, Holland and Knight, LLP</td>
</tr>
<tr>
<td>Brandon N aids</td>
<td>CEO &amp; Co-Founder, Talon Simulations</td>
</tr>
<tr>
<td>Capt. Steve “Snak” Nagakawa</td>
<td>Principal Business Development Manager, Rockwell Collins Simulation &amp; Training Solutions</td>
</tr>
<tr>
<td>Jon Nally</td>
<td>Senior Director, People Operation, Worldwide, Tupperware Brands, Inc</td>
</tr>
<tr>
<td>Dennis Nolte</td>
<td>Vice President, Seacoast Wealth Management</td>
</tr>
<tr>
<td>Sibille Pritchard</td>
<td>Director of Executive Affairs, Chelonian Research Institute</td>
</tr>
<tr>
<td>Jamie Roche</td>
<td>Business Development Executive, Carr, Riggs and Ingram, LLC</td>
</tr>
<tr>
<td>Meredith Sand</td>
<td>President, Meredith Sand Designs</td>
</tr>
<tr>
<td>Dr. Susan Singer</td>
<td>Vice President of Academic Affairs &amp; Provost, Rollins College</td>
</tr>
<tr>
<td>Demetria Sloan</td>
<td>Founder and President, Vantage Point Coaching, LLC</td>
</tr>
<tr>
<td>Mila Smith</td>
<td>Vice President, Human Resources, Southeast, Balfour Beatty Construction</td>
</tr>
<tr>
<td>Marc Swanson</td>
<td>Chief Financial Officer &amp; Treasurer, SeaWorld Parks &amp; Entertainment</td>
</tr>
<tr>
<td>Dr. Peter Wearden</td>
<td>Director &amp; Chair, Chief of Cardiothoracic Surgery, Nemours Cardiac Center</td>
</tr>
<tr>
<td>Antwan Williams</td>
<td>Administrator, Orlando Health</td>
</tr>
<tr>
<td>Scott Wilson</td>
<td>Partner, Assurance Services, RSM, LLP</td>
</tr>
<tr>
<td>Lindsay Winter</td>
<td>Business &amp; Franchise Consultant, Lindsay Blare, LLC</td>
</tr>
<tr>
<td>Brian Battles</td>
<td>Deputy Chief Financial Officer, City of Orlando</td>
</tr>
<tr>
<td>Lonnie Bell</td>
<td>Director, Orange County Family Services</td>
</tr>
<tr>
<td>Dr. Tina Calderone</td>
<td>School Board Vice Chair, Seminole County Public Schools</td>
</tr>
<tr>
<td>Capt. Timothy Hill</td>
<td>Commanding Officer, Commanding Office, NAWCTSD</td>
</tr>
<tr>
<td>Dr. Michael Johnson</td>
<td>Dean of the College of Science, University of Central Florida</td>
</tr>
<tr>
<td>Dr. Eugene Jones</td>
<td>Executive Dean, Valencia College, Downtown Campus</td>
</tr>
<tr>
<td>Linda Kober</td>
<td>School Board Member, District 3, Orange County Schools</td>
</tr>
<tr>
<td>JoAnn Newman</td>
<td>President and CEO, Orlando Science Center</td>
</tr>
<tr>
<td>Dr. Laura Ross</td>
<td>Vice President of Academic Affairs, Seminole State College</td>
</tr>
</tbody>
</table>

### EX-OFFICIO TRUSTEES

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Company/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Battles</td>
<td>Deputy Chief Financial Officer, City of Orlando</td>
</tr>
<tr>
<td>Lonnie Bell</td>
<td>Director, Orange County Family Services</td>
</tr>
<tr>
<td>Dr. Tina Calderone</td>
<td>School Board Vice Chair, Seminole County Public Schools</td>
</tr>
<tr>
<td>Capt. Timothy Hill</td>
<td>Commanding Officer, Commanding Office, NAWCTSD</td>
</tr>
<tr>
<td>Dr. Michael Johnson</td>
<td>Dean of the College of Science, University of Central Florida</td>
</tr>
<tr>
<td>Dr. Eugene Jones</td>
<td>Executive Dean, Valencia College, Downtown Campus</td>
</tr>
<tr>
<td>Linda Kober</td>
<td>School Board Member, District 3, Orange County Schools</td>
</tr>
<tr>
<td>JoAnn Newman</td>
<td>President and CEO, Orlando Science Center</td>
</tr>
<tr>
<td>Dr. Laura Ross</td>
<td>Vice President of Academic Affairs, Seminole State College</td>
</tr>
</tbody>
</table>

Thank you for your leadership and commitment to inspire science learning for life.
Our cover model Aerys is a savannah monitor (*Varanus exanthematicus*) and is a NatureWorks’ Animal Ambassador!

President’s Message 2
Science in Our Lives 3
Otronicon 4 - 5
Member Scrapbook 6
Films & Shows 7
Traveling Exhibit 8 - 9
Monthly Calendar 10 - 11
Spring Events 12
Try This at Home! 14
10th Annual Science of Wine 15
Exhibit Updates 16
NatureWorks FAQs 17
STEM Spotlight: From Sci-Fi to Sci-Fact 18
STEM Camps 19
Welcome to the Team! 20
Support 21 - 24
Share Your Story 25

SCOPE Magazine is published three times a year by Orlando Science Center. SCOPE accepts no responsibility for the return of unsolicited manuscripts and/or photographs and assumes no liability for products or services advertised herein. SCOPE reserves the right to edit, rewrite or refuse material and is not responsible for products.

CONTACT INFORMATION
Phone Number: 407.514.2000 | Website: www.osc.org | Story ideas and suggestions: oscmembership@osc.org

Orlando Science Center is supported by United Arts of Central Florida, funded in part by Orange County Government through the Arts & Cultural Affairs Program, and sponsored in part by the State of Florida, Department of State, Division of Cultural Affairs and the Florida Council on Arts and Culture. © 2020 Orlando Science Center.

Title VI of the Civil Rights Act of 1964 prohibits discrimination based on race, color, or national origin including limited English proficiency, in programs or activities receiving Federal financial assistance. To learn more, please contact our Accessibility Coordinator Debra Gordon at 407.514.2029 or dgordon@osc.org, email preferred.
Prepare for the beauty and power of Pompeii

This summer, travel to ancient Italy without ever leaving Orlando. We are excited to be one of only four museums in the country to host *Pompeii: The Immortal City* when it premieres at Orlando Science Center on June 6, 2020. Spectacular immersive moments will allow visitors to connect with the lives of ancient Romans before their city was entombed in volcanic ash by the eruption of Mt. Vesuvius. The exhibition features more than 100 artifacts, including some on display for the first time outside of Italy.

This amazing experience is made possible thanks to generous support from Orange County’s Arts and Cultural Affairs Advisory Council, its Blockbuster Committee, and tourism partners. Through Orange County’s Blockbuster Fund, Orlando Science Center received funding that helps underwrite the cost to bring in an exhibition of this magnitude.

This exhibit reinforces our mission to inspire science learning for life by providing public access to the science, technology, art, and history of the ancient Romans. Examining these artifacts firsthand will help illuminate the remarkable advancements of this civilization and their similarity to our own times. The experience will be augmented by a series of unique arts and cultural programming from local peers.

We are investing a portion of our grant award into eight projects that were selected by a panel of community leaders.

The additional arts and culture projects range from large installations like the “active” volcano that recently thrilled attendees at the IMMERSE arts festival to art exhibits, theater performances, a film series, dining events, and more. You will see these projects launching in the next few months, all leading to the premiere of *Pompeii: The Immortal City*. Be the first to experience this once-in-a-lifetime opportunity when advance tickets for the exhibit go on sale this February.

Thanks to support from Orange County and its tourism partners, admission to *Pompeii: The Immortal City* will be free to our members – something that has never been possible before during a blockbuster exhibit. Usually exhibits of this size demand a significant upcharge to help cover the costs. Non-member visitors will also only see a minor increase in our ticket prices, ensuring that everyone will have a chance to witness the rare beauty and power of this immortal city. Prepare yourself for a community-wide celebration of art, science, and history.

Sincerely,

[Signature]

PRESIDENT/CEO
2020 – A VISION FOR THE FUTURE OF CENTRAL FLORIDA’S STEM WORKFORCE

Just imagine – by 2050, your child could wake up to be driven in their autonomous vehicle to work on the Space Coast where humans will be taking off to colonize Mars. Orlando is home to the fastest growing STEM job market in the United States. As our global economy moves closer to technology and automation, Orlando Science Center works to inspire and prepare the next generation for jobs in industries that may not even exist yet.

Our schools are preparing students academically and so is Orlando Science Center – with exhibits and activities that make learning fun and engaging. But preparing financially for postsecondary education is just as important.

As the newest Corporate Partner of Orlando Science Center, Florida Prepaid is helping to build the future STEM talent pipeline by helping families start saving early for college tuition costs. And now they’re supporting Orlando Science Center’s vision to create prosperity in your community through their generosity.

Technology has the power to create entirely new industries while automating positions that are routine and predictable. Many fear this rapid change in our economy and what that means for the future workforce, but Orlando is poised to grow exponentially during this industrial revolution. In a new report from the Orlando Economic Partnership, it is anticipated there will be a huge demand not only for more jobs, but jobs that pay more. By 2030, Orlando is projected to create between 254,000 and 482,000 new jobs.

Of course, a career in autonomous vehicles, working on the next mission to Mars, or saving ocean wildlife from plastic contamination will require a new set of skills. K-12 and postsecondary education is a key component for the next generation of STEM workers who will fill these positions and change our world.

But with costs growing, a college education can seem out of reach for the average family. Orlando Science Center’s partner, Florida Prepaid, is a trusted resource that assists Florida families with saving for their child’s future. Florida Prepaid allows you to secure rates for tomorrow’s tuition and save, stress-free.

No one knows what the future holds, but we strive to create a bright tomorrow for the next generation and beyond. We thank Florida Prepaid for their generous support of our STEM learning experiences and look forward to the incredible achievements that participating students will accomplish in the future!
Introducing Otronicon Community Events!

Otronicon will be 15 years old in 2020. Year after year, Otronicon grows and keeps getting better and better. The event has thrived because it celebrates the intersection between science and technology and shines a light on innovations being developed in Central Florida.

This year, Otronicon has grown beyond the walls of Orlando Science Center and will feature several community events taking place in the weeks leading up to the capstone event. The purpose of these community events is to engage people in discussion and exploration of what technology means to our lives and our future.

Some events include STEM Saturdays at the Microsoft stores at both Mall of Millennia and The Florida Mall. Students ages 8 and up will have the opportunity to participate in two-hour sessions where they will create their own video games! Also, Level Up Academy will host a Parents Night Out to engage your children while you enjoy date night downtown. This event will feature activities that look at how games are made while providing opportunities to promote teamwork, project management, and creativity.

Don’t miss screening of the documentary “The Bit Player” at Enzian Theater. In a blockbuster paper from 1948, Claude Shannon introduced the world to the “bit” and laid the foundation for the information age. This film combines interviews with leading scientists, archival film, inventive animation, and compelling commentary from Shannon himself to tell the story of an overlooked genius who revolutionized the world but never lost his childlike curiosity. This community event will kick off with a tech brunch, followed by the film screening, Q&A, and discussion on Shannon’s legacy and impact with director Mark Levinson and research scientist Elaine Raybourn of Sandia National Laboratories.

Community events are free or require a nominal fee to participate. Attendance may be limited so be sure to reserve tickets as needed! Check out even more community events at otronicon.org/events.
5 Ways Otronicon can help you achieve your New Years Resolutions!

We’re ringing in the New Year—and the new decade—with 2020 vision for an innovative new future. We know you’re looking to become your best self this year and Otronicon 2020 has come just in time with revolutionary techniques to help you achieve your goals! Here’s how Central Florida’s most engaging tech and STEM career expo will inspire you to reach for the stars.

1. **Learn a New Skill**
Not only can you immerse yourself in the newest state-of-the-art tech in entertainment, medicine, and science at Otronicon, you can also learn to become an innovator in your own right. Take part in one of our workshops or learn directly from experts in their field at a speaker session. You’ll walk away knowing you can do something you couldn’t in 2019!

2. **Spend More Time With Friends and Family**
Grab the whole family and make Otronicon a weekend outing! Spend quality time learning new skills together, discovering the latest tech being made right here in Central Florida, and even go head-to-head in gaming competitions. As an Orlando Science Center member, your guest passes are also valid! Don’t hesitate to invite a friend you wish you saw more of in 2019 or bring your best friend for your first joint adventure of the year.

3. **Be More Active**
With four floors packed with electrifying technology, there’s no doubt you’ll be making countless circuits around the Science Center. Put on your best walking shoes and get ready to discover dozens of exhibitors, ranging from major companies to local artists that all share a passion for technology. Even try your hand at virtual reality simulators that will keep you moving!

4. **Save Money**
Control-Alt-Delete your worries about your weekend budget in the New Year! As an Orlando Science Center member, Otronicon is absolutely free for you. That’s four action-packed days of discovery for you and your entire family at absolutely no cost.

5. **Meet New People**
Only Otronicon brings Central Florida leaders that are shaping our future together in one place! Speak directly with trailblazers from the big-name companies you’re familiar with or make friends while learning something new from the startups that are taking off in our own backyard. Who knows, you may even find a new career path!

Learn more at [otronicon.org](http://otronicon.org).
Member Scrapbook

One of the greatest benefits of an OSC Membership is invitations to exclusive Member-Only events. From bubbles to BattleBots to Pumpkins and Protons, our Members have had an eventful few months.

Join our OSC Member Community at facebook.com/groups/oscmember and share your photos — you might be featured in the next Member Scrapbook!

OSC Members dressed to impress at our most popular annual event, Pumpkins & Protons Party!

Artificial Intelligence World Premiere & Member Preview!

Members stopped, dropped, and rolled all over the opportunity to join us for our Children’s Safety Village Members Day Out.

The Members-Only Spheres Bubble Show blew us away!

Thank you to Robot Ruckus for bringing the BattleBots finale to the big screen!
VOLCANOES "ERUPT" ON THE GIANT SCREEN

Volcanoes: The Fires of Creation
Premieres February 2020
Dr. Phillips CineDome

Earth is a planet born of fire. With over 500 active volcanoes, the Earth is bursting at the seams with these forces of land creation. From Hawai’i to Pompeii, join explorer Carsten Peter on a journey to the heart of Volcanoes: The Fires of Creation and experience how volcanoes shape the very planet that formed them.

Back From The Brink: Saved From Extinction 3D
Now Showing
Digital Adventure Theater

This heartwarming tale follows three endangered species as they bounce back from the brink of extinction. Actress Claire Danes guides audiences on an adventure around the world to highlight the power of positive impact, and showcase the incredible scientists, conservationists, and students making a difference.

FILMS & SHOWS

Volcanoes: The Fires of Creation
Premieres February 2020
Dr. Phillips CineDome

Back From The Brink: Saved From Extinction 3D
Now Showing
Digital Adventure Theater

Film schedule varies daily and is subject to change. For upcoming film and show schedules, please visit osc.org/theaters.

EDUCATIONAL

CineDome
Amazon Adventure
Apollo 11
Great Bear Rainforest
Oceans: Our Blue Planet
Volcanoes: The Fires of Creation

Digital Adventure Theater
Australia’s Great Wild North 3D
Back From The Brink: Saved From Extinction 3D
Backyard Wilderness 3D
Fly Me To The Moon
Planet Power 3D

HOLLYWOOD

Abominable
Angry Birds 2
Frozen 2
Spies in Disguise
Toy Story 4
Grab your detective hats and your notebooks! Do you have what it takes to become a top secret agent? Find out when you take on the role of a spy to solve the Quantum Computer crime in this interactive exhibit coming to Orlando Science Center on January 25. As a secret agent, you will tour 21 puzzling, interactive stations that showcase the role science and technology play in successfully solving mysteries!

Your mission, should you choose to accept it, won’t be easy but we feel you’re up to the task. Don’t worry, you’ll be equipped with the latest cutting-edge spy technology to help solve this case. There’s everything from shoe phones to umbrellas with satellites to use in your investigation.

After you’ve been debriefed, it’s time to gather clues. Not all of them are visible to the naked eye though. Discover the power of night vision when you find hidden ID tags in the dark. If you need more help, the spy satellite system should be of good use. Learn how satellite systems pinpoint geographic locations and make more shocking discoveries.

Listen up, Secret Agent! We need you to be all ears during your mission. As a spy, you have a variety of gadgets to help hear private conversations. Learn about acoustics and explore the wonder of physics while picking up important intelligence. Use a laser beam to hear conversations through glass and walls and learn how to tap into telephone conversations. Get
your notebook ready! There’s a lot of information to gather.

Sometimes the best way to work your leads is to go undercover. It’s now up to you to become a master of disguise. Take your picture with the photo disguise kit and create several virtual disguises for yourself. Mix and match until you become unrecognizable. But your task isn’t complete yet… You will also need a matching voice disguise. Apply different effects to your voice. Remember to think creatively and shroud yourself in mystery. After all, the only way to outsmart a criminal is to think like one.

Have you gathered enough intel to crack the case? Great! Your mission is just about over, Secret Agent. In order to reach the debriefing room to piece together your clues and discover who committed the Quantum Computer crime, you will have to pass the laser maze. Spin and crawl to avoid laser beams that trigger the alarms.

Now go forth and bring the Quantum Computer criminal to justice!

Top Secret: License to Spy was created and designed by Scitech and produced by Imagine Exhibitions.

Can you decipher the riddle?
A substitution cipher works by replacing each letter of the alphabet with another letter. The cipher below shifts the alphabet to the right by three. To write your message, the letter A gets replaced with the letter above it (X), and B gets replaced with Y and so on. For example, a coded message PZFBKZB becomes “SCIENCE.”

<table>
<thead>
<tr>
<th>CIPHER</th>
<th>Q</th>
<th>E</th>
<th>B</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHABET</td>
<td>T</td>
<td>B</td>
<td>O</td>
<td>B</td>
</tr>
</tbody>
</table>

Now you try! Decipher the phrase below to answer the riddle:
Why was the spy sleeping on the job?

<table>
<thead>
<tr>
<th>CIPHER</th>
<th>K</th>
<th>A</th>
<th>B</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHABET</td>
<td>Z</td>
<td>L</td>
<td>S</td>
<td>B</td>
</tr>
</tbody>
</table>

Now use the cipher to create your own coded messages!
JANUARY

TECHNOLOGY MONTH
Learn coding, play with robots, and see High Voltage—a show all about amazing technology that harnesses the power of electricity! Throughout the month, we’ll be highlighting incredible technology and the people who create it. Technology empowers us to do amazing things!

1 WEDNESDAY
New Year’s Day
We’re Open!

1 – 3 WEDNESDAY – FRIDAY
Break Camps*

4 & 5 SATURDAY & SUNDAY
Bank of America Weekend

5 SUNDAY
Final Day: Artificial Intelligence:
Your Mind & the Machine

6 MONDAY
Break Camps*

7 TUESDAY
Final Day: Dinos In Lights

17 – 20 FRIDAY – MONDAY
Otronicon

18 SATURDAY
Science Night Live
Featuring Otronicon!
(Ages 21+)
8:00 – 11:30 p.m.

25 SATURDAY
Top Secret: License to Spy
Exhibit Opens
Member-Only Preview
9:00 a.m. – 12:00 p.m.

FEBRUARY

ENGINEERING MONTH
Design, build, and test! All month long, challenge yourself to become an engineer with stomp rockets, paper airplanes, hydraulics, and more! Engineers build bridges to a better tomorrow by testing their designs. Learn how you can make the world a better place by practicing your problem-solving skills!

1 & 2 SATURDAY & SUNDAY
Bank of America Weekend

8 & 9 SATURDAY & SUNDAY
KidsTown Celebrates
Fairy Tale Weekend
presented by Florida Prepaid

16 SUNDAY
Sensory Sunday
9:00 – 11:00 a.m.

17 MONDAY
Break Camps*

22 & 23 SATURDAY & SUNDAY
Engineering Weekend
presented by FINFROCK

29 FRIDAY
Final Day: Star-Studded Evenings

Star-Studded
EVENINGS
FRIDAYS & SATURDAYS
5:00 – 9:00 P.M.
Now Through Feb. 29
Stargaze in the Observatory & catch a stellar film in the Digital Adventure Theater!
MARCH

NATURE MONTH
Get inspired to conserve and enjoy the outdoors through activities such as a shelter-building challenge and bee house workshops! Celebrate animals, plants, and exploration with themed activities that highlight the unique opportunities our Florida community has to enjoy the great outdoors. Let us show you how!

7 & 8 SATURDAY & SUNDAY
Bank of America Weekend

7 SATURDAY
Science Night Live
(Ages 21+)
8:00 – 11:30 p.m.

13 FRIDAY
Break Camps*

14 & 15 SATURDAY & SUNDAY
Great Outdoors Weekend

14 SATURDAY
Pi Day

16 – 20 MONDAY – FRIDAY
Spring Break Camps*

18 WEDNESDAY
We’re Open!

APRIL

SUPERHERO MONTH
Marvel at incredible activities for even the littlest learners. Become a hero in Superhero Academy and learn how superheroes’ powers work in our Super Science Show! Meet community superheroes and learn how comic book stories can inspire us to help others!

4 & 5 SATURDAY & SUNDAY
Bank of America Weekend

12 SUNDAY
OSC is Closed

18 – 19 THURSDAY – SUNDAY
KidsTown Presents:
SuperTown Presents:

19 SUNDAY
$10 Admission Day

25 SATURDAY
Science of Wine Fundraiser*
(Ages 21+)
7:00 – 10:00 p.m.

FIRST WEDNESDAYS!
When OCPS and SCPS schools are in session Orlando Science Center is closed to the public on Wednesdays except for the first Wednesday of every month. We will be open on January 1, February 5, March 4, and April 1.
**SPRING EVENTS**

**FEBRUARY 8 & 9**
KidsTown Kingdom cordially invites you to join us as we celebrate Fairy Tale Weekend! Young nobles will be enchanted with family-friendly activities that celebrate beloved, diverse fables and support STEM learning through adventure, fantasy, and magical mischief. Happily ever after awaits!

Member Preview: Friday, February 7

**FEBRUARY 16** from 9:00 – 11:00 a.m.
Orlando Science Center is a safe and welcoming space for guests of all abilities. Experience the building with lowered volume in exhibits, a quiet room, and a sensory-friendly film which can help prepare you for future visits. Download our Sensory Social Guide at osc.org/accessibility.

**FEBRUARY 22 & 23**
Lay a concrete foundation for STEM learning with Engineering Weekend! Gear up for workshop activities in The Hive: A Makerspace that will have you building anything you can imagine. Invent and innovate with STEM Challenges and more hands-on fun!

**MARCH 14 & 15**
Discover the unbe-leaf-able natural wonders all around us during Great Outdoors Weekend! Become one with nature as you meet extraordinary wildlife, participate in paw-some workshops, and experience the outdoors through wild challenges. Unleash your wild side!

**APRIL 18 – 19**
KidsTown is transforming into a mighty superhero metropolis for Superhero Weekend to celebrate all heroes, big and small! Assemble your team and learn what it takes to be an everyday superhero at home and in the community. Swoop on in with your capes and other family-friendly costumes for this event!

Member Preview: Friday, April 17
Hi! My name is Avery and I am 5 years old.

It's a pleasure to meet you!

You're probably wondering why a 5 year old is sending you this letter. Because, well... I'm a really mature 5 year old. And, I need your help.

First, you should learn a little more about me. I was lucky enough to go to the most special preschool around, the Orlando Science Center Preschool. I explored, dreamed, and created. Each day, I would visit some of my favorite exhibits like the Orange Grove and learn about cool things like volcanos, inertia, and animal species to help my brain grow. I bet there aren't many other kids with alligators at their school!

I learned to count everything at the Science Center and separated items so I could make my own math problems. Now, I love numbers and math the most. For fun, I like to ask my big sister, Adelyn, to quiz me on math problems. She always rolls her eyes but eventually caves in.

Here's where you come in...

You see, my mom told me that Central Florida is the fastest growing STEM job market in the nation – even faster than Silicon Valley! But, kids like me need your help to make sure we are ready to tackle global issues like our environment, diseases, and space exploration. Can you imagine what would happen if we all worked together to support STEM education and our students?

I promise you – my friends and I can do great things! But, we can't do it without you.

I'm telling you all of this because I believe the Science Center is special. I'm counting on you to join us and am asking you to invest in a bright future for kids like me.

With all my love,

Avery

PS. I hope to see you around the Science Center soon!
KEEPING TRACKS

Ever wonder what wildlife you might have as a neighbor? Find out by tracking their footprints!

MAKE A PREDICTION!

Think about where you live — are you close to a lake or a forest? Are you in the city or the country? What animals have you seen in your area before? Think of two to three animals that could live near you and see if this experiment confirms your hypotheses!

DIRECTIONS

1. Fill your tray with enough sand to cover the bottom.
2. Add enough water to make the sand damp and then mix it.
3. Add the food to your plates or bowls and leave them on top of the tray overnight.
4. Come back to your tray the next day and see what footprints you were able to capture!
5. Take notes in your observation notebook about your visitor’s footprints, sketch them out, or take photos!

After the experiment, think deeper about the reactions you saw! Ask questions like:

- Can you identify which animals the tracks belong to?
- If you re-set your tray, do you get the same visitors?
- Does different food attract different animals?

MATERIALS

- Baking tray
- Sand
- Food like fruits, vegetables, nuts, etc.
- Water
- Trowel
- Notebook
- Plates or bowls

Did you try this at home? Share your photos with us at sciencelive@osc.org!

RECOMMENDED FOR AGES 5+

TRY THIS AT HOME
Sip, savor, and support science under the stars at Orlando Science Center’s 10th annual Science of Wine. Returning April 25, 2020, this dazzling fundraiser is one of the largest food and wine events in Central Florida so you don’t want to miss it!

To celebrate 10 fabulous years, we’re pulling out all the stops! Presented by Southern Glazer’s Wine and Spirits, Science of Wine offers more than 150 different varieties of wine plus amazing food from our community’s best restaurants, live music, workshops and much more!

There will be plentiful gourmet and casual food offerings to accompany the wide range of wine selections. More than 20 food partners will be offering delectable delights to sample and savor; Plus, it wouldn’t be called the “Science” of Wine without some unique educational experiences! Sign up for a wine tasting seminar or check out some fascinating workshops like cooking with wine, finding the best food and wine pairings, or maybe explore a little kitchen chemistry. There will also be activities mixing fun and learning.

Name another event in town that encourages you to play with your food!

Please don’t forget that while you’re wining, dining and learning, you’re also making a difference! Orlando Science Center inspires science learning for life through iconic experiences that ignite curiosity and engage all ages to explore the world around them. A lifetime of learning started at the Science Center can lead to innovation and prosperity that benefits everyone.

Science of Wine raises critical funds to support our mission and advance educational programs and opportunities for children throughout Central Florida. The generosity of our members, donors, and supporters helps the Science Center to continue developing new and exciting content to engage and challenge all of us.

This event is not just another wine tasting, but a tour that delights your palate, feeds your curiosity, and tantalizes your senses. Be sure to check out the exciting updates and get your tickets online at osc.org/wine.
Big News for NatureWorks!

Much like a caterpillar going through metamorphosis and coming out a stunning butterfly, our fan-favorite exhibit will undergo a dramatic transformation resulting in an all-new, exciting conservation area called LIFE. We are grateful to have received support from Mayor Dyer, Mayor Demings, the Orange County Board of Commissioners, and their tourism partners for a Tourist Development Tax grant of $10 million to fund this ambitious project. Check out our “Frequently Asked Questions” on the next page to learn more about this exhibit’s evolution! NatureWorks will be open through Spring Break 2020 so be sure to stop in soon.

Be Prepared for Pompeii!

Thanks to the support of Orange County Government and its tourism partners through the Arts and Cultural Affairs program, this exhibit will come at no additional cost to members! Traditionally, members have had an upcharge to attend blockbuster exhibits of this magnitude, but this experience will be included in your annual membership!

In addition to free entry, OSC Members can be first to reserve their Pompeii tickets with the Member Pre-Sale and will have the opportunity to experience it before anyone else during the Member Preview. Also, reserve free tickets to adults-only Science Night Live in June and August, which feature the exhibition! Ensure your membership is active through Pompeii: The Immortal City so you can access these benefits.

A New Home for Kinetic Zone

Big news means big moves! As Pompeii: The Immortal City moves in, we will be making room by temporarily relocating Kinetic Zone. Beginning in May, many exhibits and activities from Kinetic Zone will have a dedicated space in DinoDigs on Level 4. But don’t worry, it will be back in its original home next fall. After all, an exhibit in motion stays in motion.
Orlando Science Center is breathing new life into NatureWorks! Beginning this spring, NatureWorks will be paws-ing operations to make way for LIFE, a new exhibit on nature and conservation premiering Fall 2021. We understand that you may have some questions about this transition, so please read on to learn more!

**What is the meaning of LIFE?**
LIFE is an exciting new exhibit that will take guests on a journey through three unique habitats. Through hands-on activities and animal encounters, guests will learn how they can positively impact and protect life all around our changing planet.

**How long will it be under construction?**
Design and production of an all-new exhibit experience is a time-consuming process and our team is working with world class exhibit designers to make sure this one-of-a-kind experience is just right. It will be about 18 months once NatureWorks goes offline before we premiere LIFE.

**Where will the animals go?**
While all our animal encounters happen on the exhibit floor, we have several areas behind the scenes where we care for our critters so none will be displaced during this transformation. A few of our friends are moving to new residences at partner zoos, aquariums, and science centers, but many of your favorite animal ambassadors will remain to help us engage and educate visitors.

**Will there still be animal encounters during construction?**
Yes! The animals in our care will remain active ambassadors for the Science Center through animal encounter experiences and meet and greets around the building. We also have presentations and programs starring our animals so you can learn even more!

**Will the Cypress tree and swamp still exist?**
You won’t have to say see you later to our gators! Florida wildlife and environmental conservation are very important to the Science Center. The iconic swamp will be upgraded and featured as one of three unique habitats in LIFE, which will include our gigantic and beloved Cypress tree plus some new features.

**Will LIFE introduce new animals?**
We feel the best way to tell the story of our changing world is through the animals that also call it home. Get ready to make several new friends when LIFE premieres late 2021. Stay tuned for exciting updates to be unveiled along the way!
From the moons of Jupiter to the fictional moons of Endor, Orlando Science Center doesn’t just keep up with science, we keep up with science fiction! Our primary mission is to inspire science learning for life, but who says learning can’t be fun? Our educators are masters at merging pop culture and trending topics with our curriculum to create iconic experiences that educate and entertain.

From Star Wars to superheroes, from Harry Potter to Minecraft and more, our educators and science interpreters develop hands-on activities that connect your interests to science learning. For example, we have a MARVEL-ous way of teaching Newton’s Laws of Physics, elasticity, and the power of electromagnets in our live Super Science Show. Find out if you’re worthy enough to lift Thor’s hammer or rival the powers of the X-Men using science!

How about a trend that finally gives you a reason to put your phone down? The Hive: A Makerspace has taken hands-on learning full S.T.E.A.M ahead. Capitalizing on the maker movement, which empowers participants to move from consumers to creators, The Hive provides the latest tools to help you turn your ideas into a reality. From 3D printing to wearable tech, The Hive challenges guests to reach outside their comfort zone and create something truly unique.

Engaging audiences creates a pathway to learning both inside the Science Center and out in the community. Our education team has a library of unique hands-on STEM activities that make science come alive for students during either an in-class workshop or a Family Science Night after hours at their school. Our education team leverages the latest trends—whether it’s virtual reality, robots or flying drones—while connecting to educational state standards and inspiring students to take the next step toward achieving their true potential.

Our newly developed drone program is currently taking flight at schools throughout Central Florida. This opportunity gives students the chance to learn different ways drones are used to solve real-world problems while actively getting their hands on emerging technology. If you’d like to learn more about what our educators could bring to your child’s school, please contact our team at 407.514.2112 or email classes@osc.org.
Orlando Science Center

**STEM Camps!**

**BREAK CAMPS**

From space to spies and bots to boogers, Orlando Science Center’s upcoming School Break Camps offer campers a hands-on, out-of-this-world atmosphere to explore the far reaches of STEM.

Camps are offered for Kindergarten through Grade 5. Member pricing as well as multi-day discounts are available so you can save on science!

Learn about upcoming themes and register at [osc.org/breakcamps](http://osc.org/breakcamps).

**SUMMER CAMPS**

Keep learning all summer long at exciting STEM camps for Preschool* through Grade 9, with topics like chemistry, engineering, nature, and many more! Download the Summer Camps Guide to get a sneak peek at our brand new camp themes that are so engaging, your camper won’t even realize they’re learning!

Make sure your membership is active through your preferred camp dates so you can participate in the Member Pre-Sale!

Learn more at [osc.org/summercamps](http://osc.org/summercamps).

**Upcoming Dates:**

<table>
<thead>
<tr>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 6</td>
</tr>
<tr>
<td>February 17</td>
</tr>
<tr>
<td>March 13</td>
</tr>
<tr>
<td>March 16 – 20</td>
</tr>
</tbody>
</table>

**Member Pre-Sale**

January 1–31, 2020

Sign up for camps before they go on sale to anyone else!

*Preschool is a DCF licensed center C09OR0729.*
Dr. Karena Chunoo Joins Our Education Team

Orlando Science Center welcomes Dr. Karena Chunoo as our new Vice President of Education. Karena is a graduate of the Orange County Public School system and began her teaching career there 12 years ago. Since then she has worked throughout Central Florida public schools, most recently as the Principal of Corner Lake Middle School.

Since embarking on her education career, Karena has been a dedicated leader focusing on raising achievements for all students. She feels her new role at Orlando Science Center builds on her prior experiences, allowing her to now impact hundreds of thousands of students throughout our community and beyond.

“The great thing about Orlando Science Center is the connection we can provide between our community’s STEM leaders and our young people,” said Dr. Karena Chunoo. “We can be the connection to their future careers, some of which don’t yet exist.”

She earned her bachelor’s degree at Florida State University, her master’s degree from Stetson University, and her doctorate in Educational Leadership from the University of Central Florida.

As the Vice President of Education, Karena leads a team of more than 60 educators, who provide iconic hands-on STEM learning opportunities and professional development for students and educators both within and beyond the walls of the Science Center. This includes our preschool, which focuses on providing STEM learning experiences for students three to five years old. Last year, Orlando Science Center engaged more than 185,000 students and educators in STEM learning and professional development.

Karena is excited to be a part of Orlando Science Center’s team and can’t wait to meet our OSC members and families!

JOIN THE TEAM!

Orlando Science Center offers a variety of volunteer and job opportunities! Whether their role is to directly interact with guests or work hard behind the scenes, every team member plays an important part and contributes to our organizational success.

Learn how you can make a difference in your community today at osc.org/volunteer and osc.org/jobs!
The Science Center would like to give a special thank you to Orange County Arts and Cultural Affairs (OCACA) for funding awarded through their Cultural Facilities grant program. Their support is helping us to repaint and perform repairs to the exterior of our building to ensure its longevity. OCACA’s continued support has helped transform the Science Center!

We would like to express our thanks to Duke Energy for being a model corporate partner. Each year, Duke Energy impacts thousands of elementary students within their service area by funding the Duke STEM Field Trips program. They are committed to promoting STEM education and providing students hands-on opportunities to learn and increase their interest in STEM careers. Thank you, Duke Energy, for continuing to help develop our region’s STEM pipeline!

For over 20 years, Publix Super Markets Charities has been a steadfast partner of the Science Center, providing valuable funding for our Birthdays program and our Science for All accessibility program. Thanks to their generous support, we are able to impact low-income families through reduced-priced admissions and memberships. We are proud to have support from Publix ensuring we can continue to provide accessible learning experiences to create stronger communities!

We greatly appreciate the steadfast support of the State of Florida Division of Cultural Affairs as we invest in conservation, ecology, and the environment through the establishment of our upcoming new exhibit, LIFE. Funding provided by the Division of Cultural Affairs Cultural Facilities award promotes arts and culture as essential to the quality of life for all Floridians. Thank you State of Florida Division of Cultural Affairs for your commitment to furthering LIFE in all of its splendor!
THANK YOU

Orlando Science Center would like to offer our sincere gratitude to those who joined us to honor Mr. Robert Finfrock at the Building Curiosity Gala on October 19, 2019. The evening was a night to remember as we highlighted the importance of supporting, engaging, and educating curious minds.

We would like to offer our heartfelt appreciation to our Building Curiosity Gala Committee, sponsors, and our volunteers for making the event possible. Your generosity makes a difference and supports Orlando Science Center’s mission to inspire science learning for life.

GROUNDBREAKER

FINFROCK

Dr. Sarah Layton & Mr. Allen Layton
City of Orlando

INVENTOR

Mrs. Krista Ledden & Mr. Jonathan Ledden

DESIGNER

Boeing
ConTech Construction
Dixon Ticonderoga Company
Jon M. Hall Company
OptumServe
Orion Technologies
Universal Orlando Resort

CREATOR

Altamonte Glass & Mirror Inc.
A. Ginsburg Family Foundation
GrayRobinson, P.A.
Lowndes
McConnie Fence
Orlando Magic Youth Foundation
Orlando Plastic Surgery Institute
OUC
Pearson Doyle Mohre & Pastis LLP
PNC Bank
Rollins College
Stowell
University of Central Florida
Wayne Automatic Fire Sprinklers, Inc.
Wells Fargo
WFTV Channel 9
Orlando Science Center is thrilled to have been selected for a $100,000 Disney Grant in partnership with Orange County Head Start to engage our youth, educators, and families in STEM education.

In addition to this generous investment, our team was recently celebrated as Grand Marshals before the Festival of Fantasy Parade at Magic Kingdom Park, where we all shared in the power of magic and STEM together. It was a wonderful surprise for our team and an experience for which we are so grateful.

This highly competitive award will empower us to impact the youngest learners in our community and will help to inspire science learning for life. We thank our friends at Walt Disney World for their trust and support!

Thank You for Supporting our Volunteers

Gayle Nance, a dedicated Orlando Science Center volunteer, passed away on September 12, 2019. Having volunteered for nearly 35 years, Gayle shaped our growth while finding new ways to impact our community and assist our teams with inspiring science learning for life.

Her analytical skills and attention to detail were integral in supporting the Volunteer Resources Department. She provided hands-on help cataloging incoming volunteers, maintaining personnel records, and updating internal databases. Gayle was an important part of the Science Center’s commitment to volunteers and was always willing to ask “What can I help you with today?” with a warm and genuine smile.

When the current building opened in 1997, Gayle’s name was etched into one of the construction cross-beams in honor of her commitment to Orlando Science Center’s mission. We honor and remember Gayle for her hard work, unwavering commitment, and immense dedication to our community. Her memory will live on in the powerful work our volunteer team does every day.
Help Captain Inspire Future Conservationists

CAPTAIN NEEDS YOU

Here’s How It Works:

STEP 1
Initiate the Text-to-Give Transaction. Use your cell phone and text "STEM" to 243725.

STEP 2
Click the Link. As a confirmation of your text, you will instantly receive a response text message that includes a link.

STEP 3
Complete the Form. Use the online donation form to indicate your gift amount and fill in your payment information.

STEP 4
Submit! Once you have completed the form, press "Give Now" to submit your gift.
We want to hear how the Science Center has impacted your life! Whether you visited once or have grown up here, share how you’ve been inspired by science through your experiences at OSC. Share what OSC means to you by emailing story@osc.org or sharing in our Orlando Science Center Member Community on Facebook.

For a chance to be featured in the next issue of SCOPE, use the hashtag #OSCmember on Instagram!
10th ANNUAL

Science of WINE

Benefiting Orlando Science Center

SATURDAY, APRIL 25, 2020
Exclusive Member Rate - $110

www.osc.org/wine