



SCIENCE CENTER
AND AQUARIUM



Shaping waters

Topographic map of a connected

A topographic map uses different colors to represent different elevations. The higher the elevation, the more yellow and red the color. The lower the elevation, the more green and blue the color. The lines on the map represent the shape of the land. The lines are called contour lines. Contour lines are used to show what the landscape looks like on a flat map. Different spacing and shapes of lines indicate how the land rises or falls on the surface of Earth.

Where does the water go?

Try this

1. Fold a piece of paper into a mountain range. The mountain range is the topography. The paper is the water. When it rains, the water will flow down the sides of the mountain. This is how water flows on a real mountain range.

2. Fold a mountain, lake, river, dam, or wetland.

3. Make it rain by holding your hand over the mountain.

4. Fold a steep-sided mound. How far apart are the lines?

5. Draw a black line. Trace your finger along it to draw a contour line. Can you make the contour lines move closer together?

EDUCATION GUIDE

2024-2025

Contents

- Quick Program Guide 3
- Early Childhood Programs 4
- Elementary School Programs 6
- Middle School Programs 10
- High School Programs 14
- Science Center Exhibits 21
- Science Center Map 22
- Coming Soon 22
- Save the Date 24
- Capital Expansion 25
- Planning your Visit / Fees 26
- Visit and Program Request Form 27



Our facility has achieved **GBAC STAR™** facility accreditation from the Global Biorisk Advisory Council (GBAC), a Division of ISSA - The Worldwide Cleaning Industry Association, to prevent and respond to infectious disease outbreaks.

Learn more about our efforts to enhance cleaning, disinfection and prevention protocols: Coxsciencecenter.org/GBAC.

Quick Program Guide

Grade Level	Distance Learning Programs	In Person Programs (at school or at the Science Center)
Early Childhood <i>Pre-K and Kindergarten</i>	Squishy Circuits Creepy Crawlies Ocean Commotion Space Explorers Wacky Weather	All About Me, Balloons and Bubbles, Creepy Crawlies, Discovery Dome (at School only), Ocean Commotion, Space Explorers, Squishy Circuits, Touch Tank (at SC only), Wacky Weather, We are the Dinosaurs
Elementary School <i>Grades 1-5</i>	Chemical Concoctions Circuit Science Everglades: All About the Alligator Exciting Electrons Investigating Insects Nitromania Shark Tooth Lab	Chemical Concoctions, Circuit Science, Code Creations, Digging Around the World, Discovery Dome (at School only), Dissections (squid, frog), DNA in Motion, Exciting Electrons, Everglades: All About the Alligator, Heart in Motion, Investigating Insects, Mineral Mysteries, Newton Olympics, Nitromania, Planetarium Shows (at SC only, See pg. 4), Pollinating Plants, Shark Tooth Lab, Touch Tank (at SC only)
Middle School <i>Grades 6-8</i>	Brain in Action Chemical Concoctions Everglades: All About the Alligator Exciting Electrons Investigating Insects Nitromania Shark Tooth Lab	Brain in Action, Chemical Concoctions, Code Creations, Digging Around the World, Discovery Dome (at School only), Dissections (squid, frog), DNA in Motion, Everglades: All About the Alligator, Exciting Electrons, Heart in Motion, Investigating Insects, Mineral Mysteries, Newton Olympics, Nitromania, Pollinating Plants, Planetarium Shows (at SC only, see pg. 11), Shark Tooth Lab
High School <i>Grades 9-12</i>	Brain in Action Exciting Electrons Nitromania	Brain in Action, Dissections (pig, squid, frog), Discovery Dome (at School only), DNA in Motion, Everglades: All About the Alligator, Heart in Motion, Newton Olympics, Planetarium Shows (at SC only, see pg. 15), Pollinating Plants, Shark Tooth Lab

Welcome to the Cox Science Center and Aquarium





Meet our Science Education Team!

Mauricio Moreno, Ashley Zahn, Ashlee Quyle, Adalgisa Brown, Destiny Carpenter, Chris Ortiz, Chris Pait, Alexa Haimon, Debra Samuels, Joe Femano




Early Childhood

Pre-K and Kindergarten

PLANETARIUM SHOWS (only at Science Center)		Big Ideas / FSASS
Kaluoka'hina: The Enchanted Reef 	A digital full dome planetarium show, this animated feature film transports the viewer to a tropical reef, a one-of-a-kind world inhabited by amazing creatures.	<i>Investigation and Inquiry, Life Science</i>
One World One Sky 	Take an imaginary trip from Sesame Street to the moon with Big Bird and Elmo as they explore the night sky with Hu Hu Zhu, a Muppet from the Chinese co-production of Sesame Street.	<i>Investigation and Inquiry, Life Science, Earth and Space</i>

LABS		Big Ideas / FSASS
All About Me  	Explore the wonders inside the human body with Mr. Bones, our inflatable skeleton and animal bone replicas. Experiment with the five senses by becoming listening, feeling, and smelling detectives and make your own "snot" to take home!	<i>Investigation and Inquiry, Physical Science, Life Science</i>
Balloons and Bubbles  	Bubble fun begins when students make their own bubble solution and bubble wands to play outside. Using dry ice, students will be amazed as we "magically" blow up a balloon and make bubbles filled with smoke.	<i>Investigation and Inquiry, Physical Science</i>
Creepy Crawlies   	Become an entomologist and learn where bugs live, how they eat, and how they help in the environment. Examine and touch live species of bugs!	<i>Investigation and Inquiry, Life Science, Environmental Awareness</i>
Discovery Dome 	The Discovery Dome is a fully portable, inflatable, full-dome planetarium. This immersive experience offers the same unique learning opportunities as a traditional planetarium at your location. Ask about show offerings and space requirements.	<i>Varies by Program</i>
Ocean Commotion   	Explore the fascinating world of aquatic animals, their habitats, and their amazing senses through animal puppetry and toy replicas. Touch real shark jaws and fossils and create your own shark tooth necklace.	<i>Investigation and Inquiry, Life Science, Earth and Space</i>
Space Explorers   	Put on a space helmet and travel to the inner and outer planets of our solar system with hands-on inflatable planets. Make "sun-indicator" necklaces and watch the beads change color as we head outside to learn about the sun.	<i>Investigation and Inquiry, Earth and Space</i>
Squishy Circuits   	Explore electrical energy and harness the power of electrons! Learn how we use electricity by building simple circuits.	<i>Investigation and Inquiry, Physical Science</i>
Wacky Weather   	Discover and explore sun, rain, clouds, snowflakes and rainbows with our wacky weather puppets. Experience very cold and very hot temperatures through sun necklace activities and making your own "snow"!	<i>Investigation and Inquiry, Physical Science, Earth and Space</i>
We are the Dinosaurs  	Students will become paleontologists as they examine fossils, learn about the dinosaurs' extinction, make their own fossil, and watch a volcano erupt!	<i>Investigation and Inquiry, Life Science</i>









DEMONSTRATIONS		Big Ideas / FSASS
Touch Tank 	Experience ocean organisms through observation, touch and fun narration while learning about the special adaptations that help these animals survive.	<i>Big Ideas: 1- Practice of Science</i> <i>14- Organization and Development of Living Organisms</i> <i>15- Diversity and Evolution of Living Organisms</i> <i>17- Interdependence</i>







 In Person, at Science Center
  In Person, at school
  Distance Learning










Elementary School






Grades 1-5










PLANETARIUM SHOWS (only at Science Center)		Big Ideas / FSASS
Astronaut 	Would you like to learn what it's like to travel through space or to work on the International Space Station? Learn what it takes to be an astronaut as you travel into space in this digital full dome planetarium show.	<i>Big Ideas: 5- Earth in Space and Time 14- Organization and Development of Living Organisms</i>
Bugs!: A Rainforest Adventure 	This full dome show will take you into the fascinating universe of insects magnified up to 250,000 times normal size where a leaf weighs as much as a car and a single raindrop can quench the largest thirst.	<i>Big Ideas: 14- Development of Living Organisms 15- Diversity of Living Organisms 16- Heredity and Reproduction 17- Interdependence</i>
Dinosaurs Alive (Grades 3-5) 	Journey through the Triassic and Cretaceous periods with renowned paleontologists hunting for fossilized clues, uncovering evidence that dinosaur descendants may still walk (or fly) among us today.	<i>Big Ideas: 1- The Practice of Science 15- Diversity and Development of Living Organisms</i>
Habitat Earth 	Plunge below the ocean's surface to explore the dynamic relationships found in deep ocean ecosystems; dig beneath the forest floor to see how Earth's tallest trees rely on tiny fungi to survive; and soar to new heights to witness the intricate intersection between human and ecological networks.	<i>Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns</i>
Kaluoka'hina: The Enchanted Reef 	A digital full dome planetarium show, this animated feature film transports the viewer to a tropical reef, a one-of-a-kind world inhabited by amazing creatures.	<i>Investigation and Inquiry, Life Science</i>
Mission: Moon Watch 	Take a closer look at our nearest celestial neighbor – the moon! Our science educator will lead you on a lunar expedition to explore the unique relationship between our planet and its only natural satellite. Learn about moon phases, lunar cycles, tidal forces, planetary motion, and more in this brand-new, live planetarium program.	<i>Big Ideas: 5- Earth in Space and Time</i>
Solar System Odyssey 	Learn about all of the planets and major moons in our solar system on a futuristic space mission to explore the necessities for life.	<i>Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time</i>
Stars and Constellations 	Take a tour of the stars in our 360° full-dome digital planetarium. Learn some basic principles of astronomy like what a star is made of and how far it is to our closest star. Our science educator will highlight some seasonal constellations and other interesting night sky sights.	<i>Big Ideas: 5- Earth in Space and Time</i>

LABS		Big Ideas / FSASS
Chemical Concoctions   	Students will have the opportunity to make their own polymers while conducting experiments that reinforce chemistry concepts of atoms and molecules, properties of matter and physical vs chemical change.	<i>Big Ideas: 1- The Practice of Science 8- Properties of Matter 9- Changes in Matter</i>
Circuit Science   	Students create their own functioning electrical circuits while they discover open and closed circuits and the difference between conductors and insulators.	<i>Big Ideas: 10- Forms of Energy</i>

LABS Cont.		Big Ideas / FSASS
Code Creations 	Learn fundamental computer science concepts like sequences, logic, and loops in this introduction to coding. Practice these basic programming skills with the help of a little blue robot named Dash.	<i>Big Ideas: Computer Practices and Programming</i>
Digging Around the World 	As they transform into paleontologists, students step back in time and dig for fossils to explore the wild world of the past. Students will also learn how fossils are formed by creating models of fossils.	<i>Big Ideas: 1- The Practice of Science 6- Earth Structures</i>
Discovery Dome 	The Discovery Dome is a fully portable, inflatable, full-dome planetarium. This immersive experience offers the same unique learning opportunities as a traditional planetarium at your location. Ask about show offerings and space requirements.	<i>Varies by Program</i>
Dissections  	Study anatomical structures and how these relate to body systems' function in a squid or frog.	<i>Big Ideas: 14- Organization and Development of Living Organisms 17- Interdependence</i>
DNA in Motion  	DNA contains all the information your body needs to grow and develop into the awesome and unique person that is you. Learn more about this mighty molecule and even get your own chance to extract some DNA.	<i>Big Ideas: 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 16- Heredity and Reproduction</i>
Everglades: All About the Alligator  	Students will learn all about food webs, Florida's fascinating ecosystems and the anatomy of a real alligator.	<i>Big Ideas: 14- Organization and Development of Living Organisms</i>
Heart in Motion  	Learn about the anatomy and function of the heart and circulatory system. Observe how we use different techniques like stethoscopes and EKGs to study this extraordinary organ.	<i>Big Ideas 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 17- Interdependence</i>
Investigating Insects   	Observe and interact with live insects as we discuss habitats, characteristics and the beneficial role that insects play in our environment.	<i>Big Ideas: 10- Forms of Energy</i>
Mineral Mysteries 	Discover how geologists use observable properties to identify and classify minerals. Use this knowledge to help identify some mystery minerals in this hands-on lab.	<i>Big Ideas: 1- Practice of Science 6- Earth Structures 8- Properties of Matter</i>
Newton Olympics  	Sir Isaac Newton discovered that objects in motion always follow certain rules. Find out about Newton's Laws of Motion and compete in some friendly physics challenges.	<i>Big Ideas: 1- Practice of Science 12- Motion of Objects 13- Forces and Change in Motion</i>

LABS Cont.		Big Ideas / FSASS
Pollinating Plants  	Dissect a flower to discover different structures and learn how each part has a specific function related to a plant's survival.	<i>Big Ideas: 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 16- Heredity and Reproduction 17- Interdependence</i>
Shark Tooth Lab   	Students will examine real shark jaw specimens, learn about various shark habitats and behavior, and create their own shark tooth necklaces.	<i>Big Ideas: 15- Diversity and Development of Living Organisms 16- Heredity and Reproduction 17- Interdependence</i>

DEMONSTRATIONS		Big Ideas / FSASS
Exciting Electrons   	Electrifying demonstrations that include magnetic levitation, a miniature Tesla coil, and experiencing the static electricity from a Van der Graaf Generator.	<i>Big Ideas: 10- Forms of Energy</i>
Nitromania   	Students will see physical changes occur before their very eyes as they learn about the states of matter in this "chilling" program about liquid nitrogen.	<i>Big Ideas: 8- Properties of Matter 9- Changes in Matter</i>
Touch Tank 	Experience ocean organisms through observation, touch and fun narration while learning about the special adaptations that help these animals survive.	<i>Big Ideas: 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 17- Interdependence</i>

 In Person, at Science Center
 In Person, at school
 Distance Learning



Discovery Dome Astronomy Outreach

Our portable digital planetarium can travel to your school so that most students can enter a virtual world of science and astronomy. Most of the planetarium programs listed in our quick program guide are available in the Discovery Dome. The Dome requires an indoor space with a clean floor, a 25 x 25 ft space, a 15-ft high ceiling, as well as an electrical outlet.

























Middle School







Grades 6-8

PLANETARIUM SHOWS (only at Science Center)		Big Ideas / FSASS
Astronaut 	Would you like to learn what it's like to travel through space or to work on the International Space Station? Learn what it takes to be an astronaut as you travel into space in this digital full dome planetarium show.	<i>Big Ideas: 5- Earth in Space and Time 14- Organization and Development of Living Organisms</i>
Dynamic Earth 	Students will explore the inner workings of Earth's climate system as they ride along on swirling ocean and wind currents, dive into the heart of a monster hurricane, come face-to-face with sharks and gigantic whales, and fly into boiling volcanoes.	<i>Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns</i>
Black Holes: The Other Side of Infinity 	Viewers encounter a range of spectacular cosmic wonders, including a depiction of the beginning of the universe, the first stars, the collision of two galaxies, and a virtual trip into the center of the Milky Way galaxy, as they witness a scientifically accurate perspective on black holes.	<i>Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time</i>
Dinosaurs Alive 	Journey through the Triassic and Cretaceous periods with renowned paleontologists hunting for fossilized clues, uncovering evidence that dinosaur descendants may still walk (or fly) among us today.	<i>Big Ideas: 1- The Practice of Science 15- Diversity and Development of Living Organisms</i>
Habitat Earth 	Plunge below the ocean's surface to explore the dynamic relationships found in deep ocean ecosystems; dig beneath the forest floor to see how Earth's tallest trees rely on tiny fungi to survive; and soar to new heights to witness the intricate intersection between human and ecological networks.	<i>Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns</i>
Mission: Moon Watch 	Take a closer look at our nearest celestial neighbor – the moon! Our science educator will lead you on a lunar expedition to explore the unique relationship between our planet and its only natural satellite. Learn about moon phases, lunar cycles, tidal forces, planetary motion, and more in this brand-new, live planetarium program.	<i>Big Ideas: 5- Earth in Space and Time</i>
Solar System Odyssey 	Learn about all of the planets and major moons in our solar system on a futuristic space mission to explore the necessities for life.	<i>Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time</i>
Stars and Constellations 	Tour the stars in our 360° full-dome digital planetarium. Learn some basic principles of astronomy like what a star is made of and how far it is to our closest star. Our science educator will highlight some seasonal constellations and other interesting night sky sights.	<i>Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time</i>

LABS		Big Ideas / FSASS
Brain in Action 	Get a close-up view of a real mammalian brain to discover the structure and function of this three-pound organ and its role in controlling the nervous system.	<i>Big Ideas: 14- Organization and Development of Living Organisms</i>
Chemical Concoctions 	Students will have the opportunity to make their own polymers while conducting experiments that reinforce chemistry concepts of atoms and molecules, properties of matter, and physical vs. chemical change.	<i>Big Ideas: 1- The Practice of Science 8- Properties of Matter 9- Changes in Matter</i>

LABS Cont.		Big Ideas / FSASS
Code Creations 	Learn fundamental computer science concepts like sequences, logic, and loops in this introduction to coding. Practice these basic programming skills with the help of a little blue robot named Dash.	<i>Big Ideas: Computer Practices and Programming</i>
Digging Around the World 	As they transform into paleontologists, students step back in time and dig for fossils to explore the wild world of the past. Students will also learn how fossils are formed by creating models of fossils.	<i>Big Ideas: 1- The Practice of Science 6- Earth Structures</i>
Discovery Dome 	The Discovery Dome is a fully portable, inflatable, full-dome planetarium. This immersive experience offers the same unique learning opportunities as a traditional planetarium at your location. Ask about show offerings and space requirements.	<i>Varies by Program</i>
Dissections  	Study anatomical structures and how these relate to body systems' function in a squid or frog.	<i>Big Ideas: 15- Development of Living Organisms</i>
DNA in Motion  	DNA contains all the information your body needs to grow and develop into the awesome and unique person that is you. Learn more about this mighty molecule and even get your own chance to extract some DNA.	<i>Big Ideas: 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 16- Heredity and Reproduction</i>
Everglades: All About the Alligator  	Students will learn all about food webs, Florida's fascinating ecosystems and the anatomy of a real alligator.	<i>Big Ideas: 14- Organization and Development of Living Organisms</i>
Heart in Motion  	Learn about the anatomy and function of the heart and circulatory system. Observe how we use different techniques like stethoscopes and EKGs to study this extraordinary organ.	<i>Big Ideas 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 17- Interdependence</i>
Investigating Insects   	Become an entomologist by observing insects and exploring some of the oldest living creatures on earth. Interact with live specimens as we discuss habitats, characteristics, and the beneficial role that insects play in our environment.	<i>Big Ideas: 14- Organization and Development of Living Organisms 17- Interdependence</i>
Mineral Mysteries 	Discover how geologists use observable properties to identify and classify minerals. Use this knowledge to help identify some mystery minerals in this hands-on lab.	<i>Big Ideas: 1- Practice of Science 6- Earth Structures 8- Properties of Matter</i>
Newton Olympics  	Sir Isaac Newton discovered that objects in motion always follow certain rules. Find out about Newton's Laws of Motion and compete in some friendly physics challenges.	<i>Big Ideas: 1- Practice of Science 12- Motion of Objects 13- Forces and Change in Motion</i>

LABS Cont.		Big Ideas / FSASS
Pollinating Plants  	Dissect a flower to discover different structures and learn how each part has a specific function related to a plant's survival.	<i>Big Ideas: 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 16- Heredity and Reproduction 17- Interdependence</i>
Shark Tooth Lab   	Students will examine real shark jaw specimens, learn about various shark habitats and behavior, and create their own shark tooth necklaces.	<i>Big Ideas: 15- Diversity and Development of Living Organisms 16- Heredity and Reproduction 17- Interdependence</i>

DEMONSTRATIONS		Big Ideas / FSASS
Exciting Electrons   	Electrifying demonstrations that include magnetic levitation, a miniature Tesla coil, and experiencing the static electricity from a Van der Graaf Generator.	<i>Big Ideas: 10- Forms of Energy</i>
Nitromania   	Students will see physical changes occur before their very eyes as they learn about the states of matter in this "chilling" program about liquid nitrogen.	<i>Big Ideas: 8- Properties of Matter 9- Changes in Matter</i>

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 In Person, at school
 Distance Learning



GEMS

Girls Excelling in Math & Science







Girls have a bright future in science and GEMS Club will help them shine!







CoxScienceCenter.org/gems









High School


Grades 9-12

PLANETARIUM SHOWS (only at Science Center)		Big Ideas / FSASS
Dynamic Earth 	Students will explore the inner workings of Earth's climate system as they ride along on swirling ocean and wind currents, dive into the heart of a monster hurricane, come face-to-face with sharks and gigantic whales, and fly into boiling volcanoes.	<i>Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns</i>
Black Holes: The Other Side of Infinity 	Viewers encounter a range of spectacular cosmic wonders, including a depiction of the beginning of the universe, the first stars, the collision of two galaxies, and a virtual trip into the center of the Milky Way galaxy, as they witness a scientifically accurate perspective on black holes.	<i>Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time</i>
Dinosaurs Alive 	Journey through the Triassic and Cretaceous periods with renowned paleontologists hunting for fossilized clues, uncovering evidence that dinosaur descendants may still walk (or fly) among us today.	<i>Big Ideas: 1- The Practice of Science 15- Diversity and Development of Living Organisms</i>
Habitat Earth 	Plunge below the ocean's surface to explore the dynamic relationships found in deep ocean ecosystems; dig beneath the forest floor to see how Earth's tallest trees rely on tiny fungi to survive; and soar to new heights to witness the intricate intersection between human and ecological networks.	<i>Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns</i>
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Stars and Constellations 	Take a tour of the stars in our 360° full-dome digital planetarium. Learn some basic principles of astronomy like what a star is made of and how far it is to our closest star. Our science educator will highlight some seasonal constellations and other interesting night sky sights.	<i>Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time</i>

LABS		Big Ideas / FSASS
Brain in Action   	Get a close-up view of a real mammalian brain to discover the structure and function of this three-pound organ and its role in controlling the nervous system.	<i>Big Ideas: 14- Organization and Development of Living Organisms</i>
Dissections  	Study anatomical structures and how these relate to body systems' function in a squid, frog, or pig. Our expert educator will provide specimens, equipment, and worksheets for this hands-on dissection lab.	<i>Big Ideas: 14- Organization and Development of Living Organisms 17- Interdependence</i>
Discovery Dome 	The Discovery Dome is a fully portable, inflatable, full-dome planetarium. This immersive experience offers the same unique learning opportunities as a traditional planetarium at your location. Ask about show offerings and space requirements.	<i>Varies by Program</i>

LABS Cont.		Big Ideas / FSASS
DNA in Motion 	DNA contains all the information your body needs to grow and develop into the awesome and unique person that is you. Learn more about this mighty molecule and even get your own chance to extract some DNA.	<i>Big Ideas: 1- Practice of Science 14- Organization and Development of Living Organisms 15- Diversity and Evolution of Living Organisms 16- Heredity and Reproduction</i>
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DEMONSTRATIONS		Big Ideas / FSASS
Exciting Electrons   	Electrifying demonstrations, which include magnetic levitation, a miniature Tesla coil, and experiencing the static electricity from a Van der Graaf Generator.	<i>Big Ideas: 10- Forms of Energy</i>
Nitromania   	Students will see physical changes occur before their very eyes as they learn about the states of matter in this "chilling" program about liquid nitrogen.	<i>Big Ideas: 8- Properties of Matter 9- Changes in Matter</i>

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BUILD ROBOTS, CODE, MAKE FRIENDS, COMPETE, HAVE FUN!

FIRST is a robotics community that prepares young people for the future. As the world's leading youth-serving nonprofit advancing STEM education, FIRST has combined the rigor of STEM learning with the fun and excitement of traditional sports and the inspiration that comes from the community through programs that have a proven impact on learning, interest, and skill-building inside and outside of the classroom.

If schools or community groups want to start a team, it is FUN and EASY. For more information, visit: www.firstinspires.org/robotics/fll/start-a-team

CoxScienceCenter.org/first-lego-league

FirstInspires.org





TEACHER STEM OPEN HOUSE

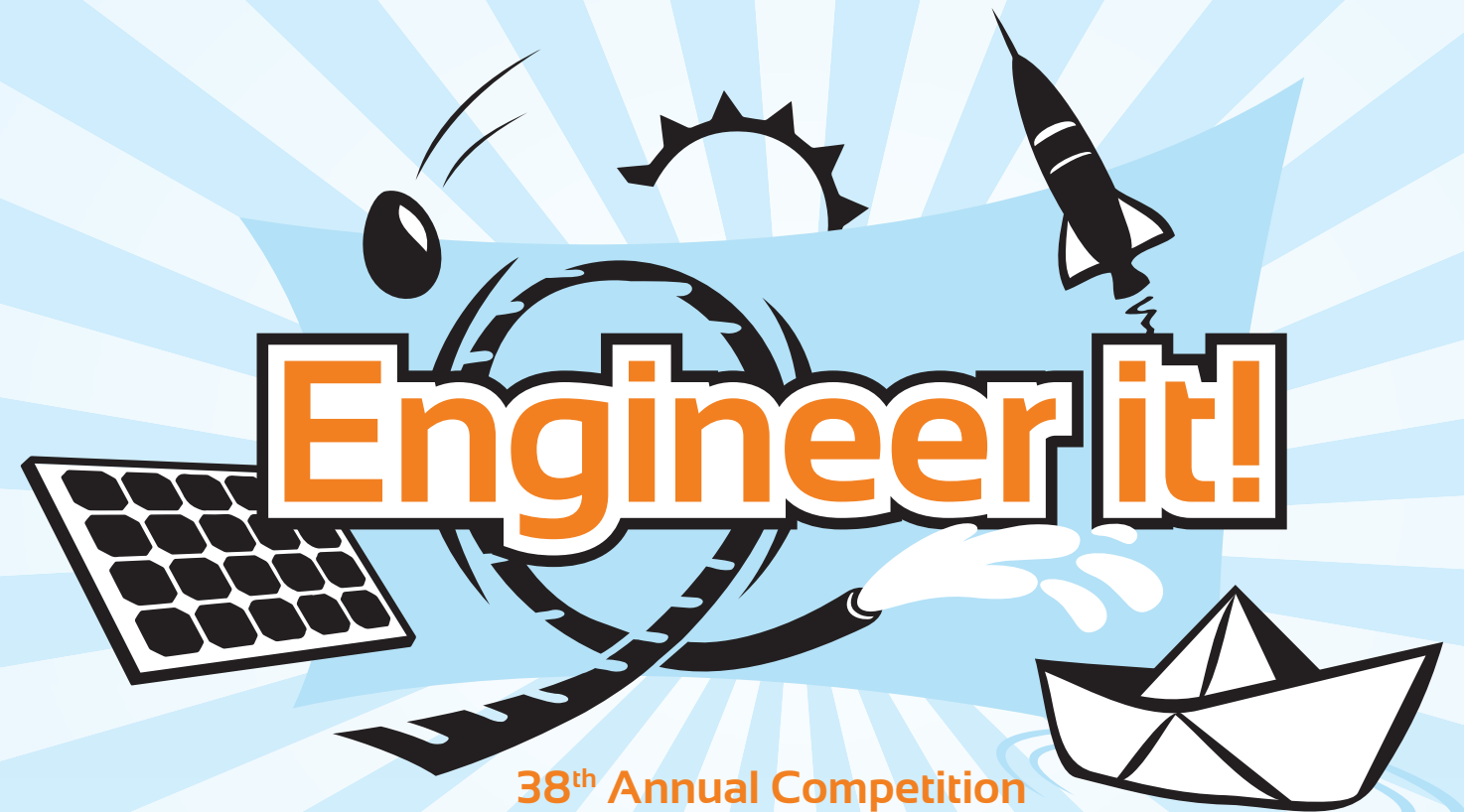
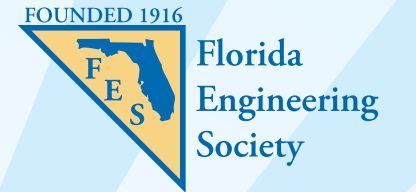
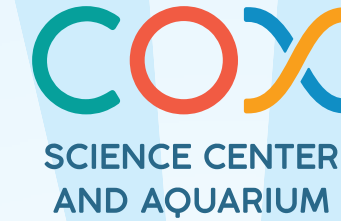
October 14, 2024 · 9AM-3PM



The School District of Palm Beach County and community STEM organizations will host workshops and vendor booths covering a variety of STEM programming.

Open House is for teachers of grades K-12 and all participants receive a complimentary lunch.

This event is free for teachers, but must register in advance by October 8th. For more information, please visit CoxScienceCenter.org/STEM-open-house or call (561) 832-2026



38th Annual Competition

Cox Science Center and Aquarium
Presented by Pratt & Whitney

Calling all budding builders and emerging engineers!

Saturday, April 12, 2025 | 8am-4pm

Check-in begins at 7am

\$5,000 in cash and prizes awarded to winners in elementary, middle, and high school categories.

Cox Science Center and Aquarium
4801 Dreher Trail North, West Palm Beach, FL 33405 • (561) 832-1988 • CoxScienceCenter.org

Science Center Exhibits

Hall of Discovery

Brainy Acts

Exercise your mind with puzzling challenges for all ages!

Hands and Minds on Science

Science enthusiasts of all ages will have fun discovering the basic principles of science with these interactive hands-on displays such as Jacob's Ladder, plasma ball, conversion machines, brain teaser puzzles and more!

Hurricane and Tornado Simulators

See destructive forces in action as you view the swirling force of a tornado and dial up the winds of a Category 1 Hurricane. Experience the force of 78 mph winds in the hurricane simulator and learn how to protect yourself and property during and after a hurricane storm.

Marvin Dekelbourn Planetarium

Palm Beach County's only public planetarium is a 68 seat theater including advanced full dome digital projection equipment and a brand new laser system that will transport visitors beyond the skies.

Out of This World

See our collection of rare space artifacts and real rocks from space featuring a Mars rock found in Nigeria in 1962, a 232-pound meteorite, and a real moon rock brought back from an Apollo mission.

Sun, Earth, Universe

In collaboration with NASA and the National Informal STEM Education Network (NISE), *Sun, Earth, Universe* is an engaging and interactive exhibition about Earth and space science for family audiences.

Fisher Family Science Trail

Enjoy the outdoors while continuing your science exploration! The upgraded, quarter-mile *Fisher Family Science Trail* connects 15 new exhibits including the Cox Amphitheater, a Physics Forest, interactive splash pad, fossil dig pit, gem panning station, a dinosaur walk, picnic areas and much more.

Florida Exhibit Hall

Aquariums of the Atlantic

The Science Center's 3,000 square foot *Aquariums of the Atlantic* takes visitors through the depths of Florida's diverse ecosystems of Everglades, Coral Reefs, Gulf Stream, and Open Ocean, home to the most beautiful native fish such as queen angels, moray eels, stingrays and seahorses.

Florida Conservation Station

This conservation-learning laboratory includes hands-on experiments and research activities that transform visitors into real-world biologists. The station gives visitors an idea of the immense variety of life in Florida and complex relationships among living things.

Engineers on a Roll

Engineers on a Roll is a combined engineering lab, playscape and climber designed for preschoolers to have direct hands-on engineering experiences with the basic concepts of engineering, science and math. The brightly colored river of balls encourages children to direct, sort and experiment with the balls while in constant motion.

Meteorology: Weather Science

Discover different weather phenomena, learn about the types of weather and tools used to measure meteorological conditions, and create your own 7-day weather forecast!

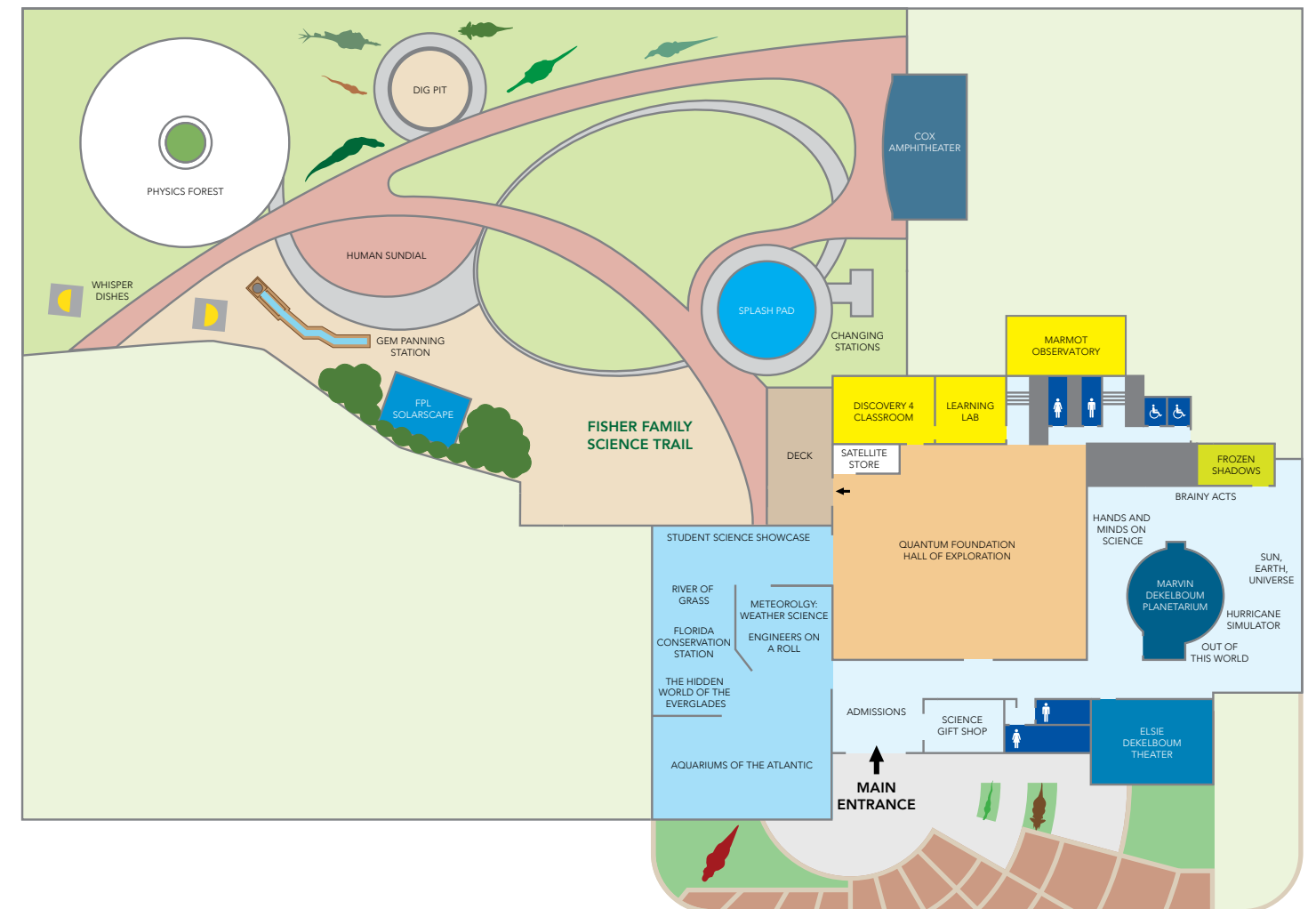
The Hidden World of the Everglades

Experience the Florida Everglades ecosystem and listen to the sounds of Florida's wildlife in their natural habit in this interactive exhibit about America's only sub-tropical wilderness.

Quantum Foundation Hall of Exploration

Marmot Observatory

Our remodeled observatory features one of the largest refractor telescopes in the state, equipped with a solar filter to view the sun during daylight hours and amazing optics for nighttime viewing of the planets, moon and other objects that come to life with it. The observatory also features a modern meteorology station for the public that keep tabs on our ever-changing weather.



Save the Date

Visit our website
coxsciencecenter.org/eventview
for updates on all our events!

Planetarium Laser Concerts - Second Friday of Each Month | 6pm, 7pm & 8pm

Visitors can rock out to their favorite music in our full-dome planetarium.

Sensory Saturdays - First Saturday of Each Month | 9am-10am

Families with Autism Spectrum Disorder or special sensory processing needs are welcome to come and explore the Science Center exclusively before opening to the general public for discounted admission.

Science on Tap – Third Thursday, Quarterly Fall-Spring | 7pm

Anyone 21 & older will learn from a knowledgeable expert or scientist on the latest trends and discoveries of science and technology over a glass of wine or a craft beer, while visiting a local Palm Beach County brewery.

Nights at the Museum – Last Friday Night of Each Month Apr.-Sep. | 6pm-9pm

Guests of all ages can enjoy extended hours of exploration at the Cox Science Center and Aquarium! Each Night at the Museum is a different theme, which includes various interactive science crafts, activities, entertainment, exhibits, planetarium shows, plus a chance to learn what's in the sky in Palm Beach County's only public observatory!

Mommy Son STEM Night – Friday, September 6, 2024 | 5:30pm-8:30pm

Moms and sons, join us for a fun-filled evening at the Science Center packed with interactive science, engineering, and technology-based stations! Explore exhibits after dark, enjoy a laser show in our planetarium, and bring your best dance moves to our Mommy-Son Dance Off. For boys in grades K-5 and their mother-figure.

Nerd Night Glow – Friday, September 20, 2024 | 6pm-9pm

Break out your brainiac side for this after-hours, 21+ event just for your inner nerd. Explore the Science Center and Aquarium after dark while enjoying themed trivia, tasty bites and brews, live science demos, interactive experiments, and more!

Spooky Science Week- Friday, October 25th -October 31st , 2024 | 10am-3pm

Join us for a week long celebration of all things spooktacular! This celebration will be filled with treat-or-treat giveaway stations, Creepy Crafts, Spooky Science Shows, a special Fright Lights Laser show and more.

Fall Family Fun Fest - Saturday, October 19, 2024 | 10am-4pm

Join us for our Annual Fall Family Fun Fest at the Cox Science Center and Aquarium! Enjoy a day packed full of family fun that your kids won't want to miss! Activities include exploration all of our exhibits including our newest traveling exhibition, live entertainment, fall and science-themed crafts, face painting, carnival games and more!

Winter Wonderland Laser Lights & Bites - December 6, 13, 20, 27 | 6pm-9pm

Presented in partnership with FPLSolarNow, families will enjoy dazzling light displays, an array of activities, food trucks and entertainment, including a spectacular outdoor holiday laser light show.

Noon Years Eve - December 31, 2024 | 10am-1pm

Ring in the New Year with a family-friendly celebration at the Science Center! The celebration kicks off at 11am with live science demos, music and dancing, face painting, DIY confetti launchers and more. Families will toast to the new year with dry ice apple cider when the clock strikes 12 noon.

Science of Chocolate - Saturday, February 15, 2025 | 10am-4pm

Visitors will learn the science behind how chocolate is made, the chemical properties of chocolate, as well as its potential health benefits. Activities include liquid nitrogen chocolate ice cream, chocolate-related crafts & activities with samples, and a continuous flowing chocolate fountain.

Daddy Daughter STEM Night – Friday, March 7, 2025 | 5:30pm-8:30pm

Dads, bring your daughters for an amazing night of science, technology, and exploration! Experience a luminescent laser show, maneuver robots, enjoy liquid nitrogen ice cream, and step into virtual reality during this fun-filled evening. For girls in grades K-5 and their father-figure.

e4 Life – Saturday, April 5, 2025 | 10am-4pm

The Science Center partners with the Sustainability Office of the City of West Palm Beach to host a community event aimed at providing lessons on sustainability, conservation and providing useful tips on how to live a healthier and greener lifestyle.



Thanks to a lead gift of 20 million from Howard and Wendy Cox, the Cox Science Center and Aquarium's capital expansion campaign will result in a new state-of-the-art building to include larger traveling and permanent exhibition galleries, programming spaces, and one of Florida's largest aquariums.

The current aquarium will increase from 10,000 to 130,000 gallons of salt and fresh water habitats, enabling us to tell the marvelous story of water as it travels through our region. School programs will grow from 150,000 students annually to 350,000 with 70% being underserved and 50% Title I students.

Our annual audience reach will increase from 500,000 to 1,000,000. Families, school groups, program participants, and web visitors will have more to see and do on and off campus. We broke ground on May 1, 2024 and we will remain open during the construction and expansion. The NEW building will open to the public in 2027. We invite you to elevate science by supporting this exciting transformation!

To learn more, visit CoxScienceCenter.org/Capital-Campaign

In Preparation For Your Visit

ON THE DAY OF YOUR VISIT

- Please arrive 15 minutes before your scheduled time.
- Buses can drop students off at the front entrance and then park in designated spots, west of traffic loop. Vehicles may not remain parked in the traffic loop. Drivers can enter exhibit area at no charge.
- Student lunches should be packed in bins or coolers.
- Students will not be permitted to bring backpacks into the science center. Please arrange to leave these at school or on the bus.
- When you arrive, please know the total number of students and chaperones in your group. The group leader should check in at the front desk upon arrival.
- Your group will be greeted by Science Center staff and directed to your first activity.
- Students must be supervised by their teacher at all times.
- Due to material limitations, presentations may not be able to be added the day of the program.

CHAPERONE NOTES

Chaperones receive a discounted admission rate of \$8/person. One chaperone is required per 10 students up to a maximum of one chaperone per 5 students. Any chaperones beyond the maximum limit will be charged the regular Adult Group rate.

OUTREACH PROGRAMS

- Our Science Educator will need a table at the front of the room.
- Laboratories require students to be seated at tables and access to a sink.
- The Science Educator should have an area to demonstrate their activity, with a 4 ft table to display their demonstration activity supplies.
- The class must have an in-class facilitator to hand out any supplies to the students.

PAYMENT POLICY AND FEES

- A 20% non-refundable deposit is due within 14 days of confirming your reservation.
- No refunds or credits will be made for no-shows the day of visit.
- Final payment must be received by the day of your visit, or reservations are subject to cancellation and your group may not be admitted. **NO REFUNDS WILL BE GRANTED.**
- On the day of your scheduled visit, check in for your group at the Front Desk under your group/contact name. Additional tickets may be purchased at the group rate, on the day of your scheduled visit, providing space is available.
- Acceptable forms of payment are check, money order, or credit card (Visa, MasterCard, Amex).
- Please make checks or money orders payable to:
Cox Science Center and Aquarium
4801 Dreher Trail North, West Palm Beach FL 33405
Attention: Group Sales
- Surcharges may apply for special event days and holidays.
- Science Center Memberships, coupons and other discounts are not applicable with school group rates.
- Teacher Members receive \$25 off the total cost of their first program.
- Instructors reserve the right to stop a program at any time if student behavior is inappropriate.

DISTANCE LEARNING PROGRAM INFORMATION

- All of our Distance Learning programs take place via Zoom. Classes are 30 – 45 minutes in length.
- Please plan to have a working Zoom account set-up prior to the class. It is the responsibility of the school or site to troubleshoot all technical problems.
- If you are experiencing technical difficulties with the visibility or audio of the program, we reserve the right to re-schedule the program, after the technical difficulties are fixed.
- The Zoom link will be emailed out with the email confirmation.
- Please treat the Zoom program as you would a regular class. Disruptive behavior or talking over the educator will result in the program ending before its designated time.
- If you would like to use a platform other than Zoom, please email programs@coxsciencecenter.org to make alternative arrangements.

Program Cost (minimum 15 students)

AT THE SCIENCE CENTER

Admission per student.....	\$12
Admission per chaperone.....	\$10
Admission per university student.....	\$15
Planetarium programs.....	+\$5
Demonstrations.....	+\$7
Lab Program.....	+\$8
Dissection program (frog/squid).....	+\$10
Dissection program (pig).....	+\$15

DISTANCE LEARNING PROGRAMS

Distance Learning Program (30 – 45 min).....	\$200
Each additional Distance Learning Program (same day).....	\$150

OUTREACH PROGRAMS (AT YOUR SITE)

Outreach Mileage Fees (per mile).....	\$1.50
Demonstrations (up to 75).....	\$500
Additional Demonstrations (up to 75).....	\$250
Discovery Dome Planetarium Outreach (up to 150).....	\$500
Labs (per student, min 15).....	\$15
Labs (Pig Dissection).....	\$17
Fun with STEM Night at School.....	\$475
Fun with STEAM Night at School.....	\$525
Early Childhood program (up to 25).....	\$300
Each additional Early Childhood class (up to 25).....	\$200

Free grant programs are available for Title 1 Schools. Please email grantprograms@coxsciencecenter.org to check availability.

Science Center Visit & Program Request Form

PLEASE FILL OUT THIS FORM COMPLETELY AND MAIL OR EMAIL TO:

Cox Science Center and Aquarium
Attn: Group Sales Office
4801 Dreher Trail North
West Palm Beach, FL 33405
programs@coxsciencecenter.org

Allow one to two business days for an email confirmation and please note that your reservation date is not secured until our group sales office has contacted you with a confirmation.

Teacher's Name: _____ Phone: _____

Preferred Email: _____

School Name: _____ Fax: _____

School Address: _____

School Phone Number: _____ Grade Level: _____

Number of Teachers: _____ Number of Students: _____ Number of Chaperones: _____

Date of Visit: _____ Alternative dates for visit: _____ Arrival Time: (earliest 9:30) _____ Departure Time: _____

Please provide the name and contact information for the group leader who will be present at the time of your visit:

Name: _____ Phone: _____ Email: _____

- Activity (choose one) Exploration at Science Center only
 Outreach Program at School (please include requested program schedule - limit 30 students/session for labs and 75 students/session for demonstrations)
 Exploration at Science Center and Program (list programs below)
 Distance Learning Program

Program(s) Requested

- 1.
- 2.
- 3.
- 4.

A 20% non-refundable deposit is due within 14 days of confirming your reservation. Final headcount and full payment are due 14 days prior to your scheduled visit. **NO REFUNDS WILL BE GRANTED.** You must cancel at least 24 hours before your scheduled program by phone or email to avoid a \$50 cancellation fee.



Cox Science Center and Aquarium
 4801 Dreher Trail North
 West Palm Beach, FL 33405

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 Permit No. 1076



Fun with STEM

Nights at your school

Let the Cox Science Center and Aquarium help you host a mind-blowing STEM event for your students and families.

Day or night, each program offers 20 interactive activities, experiments, and demos that are sure to amaze!

Please call (561) 832-2026 or email programs@coxsciencecenter.org for more information.



Homeschooler and Teacher Discounts on membership!

Sign up for any of our levels and receive A+ savings on your visits! Membership benefits include: unlimited annual admissions to our Science Center, \$25 off the first program booked, discounts on experience, free or reduced admission to over 300 science centers around the world and more!

For more information, please visit us at coxsciencecenter.org/membership or contact the membership office at members@coxsciencecenter.org or (561) 832-1988 x 237

