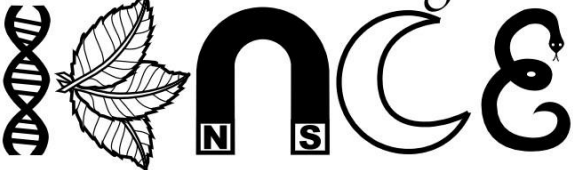


The 30th Annual



The Indian River Regional

**& ENGINEERING Fair:
A STEM Competition**

A Program of the SDIRC and the Ed Foundation of IRC

**January 29, 2022
Regional Science Fair
Vero Beach High School**

**February 1, 2022
Elementary Awards Ceremony
Sebastian River High School, Performing Arts Center
6:00 p.m.**

**February 3, 2022
Secondary Awards Ceremony
Sebastian River High School, Performing Arts Center
6:00 p.m.**

Presented in partnership by:



2022 Indian River Regional Science & Engineering Fair

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2022 Indian River Regional Science & Engineering Fair

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GRAND SPONSORS

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2022 Indian River Regional Science & Engineering Fair
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2022 Indian River Regional Science & Engineering Fair Partner



School District of Indian River County Leaders

Superintendent of Schools: Dr. David Moore
Deputy Superintendent: Scott Bass
Chief Financial Officer: Ronald A. Fagan
Assistant Superintendent of Curriculum & Instruction: Richard Myhre
Assistant Superintendent of Strategic Planning & Support Services: Pamela Dampier
Assistant Superintendent of Student Affairs, Advocacy & Access: Eric Seymour
Public Information Officer: Cristen Maddox

School Board of Indian River County

Chair, District 4: Teri L. Barenborg
Vice Chair, District 3: Dr. Peggy Jones
District 1: Dr. Mara Schiff
District 2: Jacqueline Rosario
District 3: Brian M. Barefoot

2022 Indian River Regional Science & Engineering Fair **Partner**



EDUCATION FOUNDATION
OF
INDIAN RIVER COUNTY
OPENING DOORS TO STUDENT SUCCESS

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Administrative Assistant: Jaya Dong

Special Events Coordinator: Janie Hoover

2022 Indian River Regional Science & Engineering Fair IRRSEF Planning Committee

IRRSEF Regional Science Coordinators

Elementary: Patrick Hiser
Secondary: Lisa Presti

School District of Indian River County - Science Specialists

Becky Teske - Elementary
Patrick Hiser - Secondary
April Perez - STEAM Specialist
Mitzi DiRocco - STEAM & Science Specialist

Education Foundation Interim Executive Officer

Douglas Herron

Education Foundation Administrative Assistant

Jaya Dong

Science Fair Forms Intelligence Specialist

Ang Dong

2022 Indian River Regional Science & Engineering Fair IRRSEF Scientific Review Committee

Institutional Review Board (IRB)

What they review?

- ❖ Physical and psychological projects that may pose a risk to humans.

Who serves on this committee in Indian River County?

- Ms. Carol Koiro, MS
- Scott Simpson, Ed.S.
- Mrs. Lisa Presti, M. Ed.

Scientific Review Committee (SRC)

What they review?

- ❖ Vertebrates and potentially biological agents (PHBAs) - before experimentation
- ❖ Hazardous chemicals, activities, and devices - before experimentation in FLA
- ❖ Humane treatment of animals.
- ❖ Compliance with rules and laws

Who serves on this committee in Indian River County?

- Mrs. Melissa Sleeper M.A.T., M. Ed.
- Dr. Linda B. Clerch, Ph.D.
- Mrs. Lisa Presti, M. Ed.
- Mr. Patrick Hiser, M. Ed.

2022 Indian River Regional Science & Engineering Fair

Judges

Dr. Frances Adams
Dr. Barry Alto
Mr. Jeffrey Andros
Ms. Amely Bauer
Mrs. Joanne Blum
Mr. Paul Boissonneault
Dr. Barbara Bollinger
Mr. Bob Bridigum
Mr. Philip Caliendo
Mrs. Megan Carroll
Mr. William Choate
Dr. Linda Clerch
Mrs. Celeste Cook
Dr. Tom D'Elia
Mr. Lucas de Oliveira
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Mr. Chris Demeter
Mrs. Sylvia Deputy
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Ms. Michelle Espino
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Mr. Dwight Holmes
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Dr. Donna Iannotti
Ms. Kristen Jones
Mr. Leonard Kaczynski
Ms. Clare Kaelin
Ms. Susan Kearney
Ms. Lynne Kozak
Mr. James Kozak
Dr. Yoosook Lee
Dr. Catherine Long
Mr. Tom Loomis
Dr. Robert Lowery
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Mr. Richard Lynch
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Ms. Kathleen McLaughlin
Mrs. Rosemary McQuade-Schlieper
Ms. Alex Mescko
Mr. Carmen Miranda
Mrs. Debra Morse
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Ms. Yuexun Tian
Ms. Katie Toperzer
Mrs. Christine Vicars
Mr. Gary Vicars
Mrs. Claudia Wahl
Ms. Julie Watson
Dr. Helen Wiersma-Koch
Mr. Travis Wrzesniewski
Mr. Martin Zickert

Scholarship Opportunities

Florida Institute of Technology

Florida Institute of Technology (FIT) is pleased to continue awarding scholarships at the Indian River Regional Science and Engineering Fair. Recipients must be accepted to and enroll at FIT as full-time students to claim these scholarships.

State & International Fair Scholarships

Students who are selected to attend the State and International Competitions may apply these scholarships cover the expenses for students to attend. Scholarships will be based on need.

Indian River State College

Scholarships will be awarded to high school students in the areas of Mathematics, and Biology.

The Link Scholarship

This \$1,000 scholarship is funded by the Link Foundation, in the name of the E. Clayton Link and Albert D. Stover Memorial Fund.

It is presented to a graduating senior to be used at the college of the recipient's choice in the State of Florida.

2023 Indian River Regional Science & Engineering Fair

SCIENCE FAIR SPONSORS



Become a Sponsor for the 2023 Science Fair!

Help Support the Continuation of this Event and Help Provide Student Scholarships to Attend the State and International Fairs!
\$50 OR MORE!

☐ ***Yes! I want to be a 2023 Science Fair Sponsor!***

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Elementary Division By School

Beachland Elementary School	Principal: Rachel Finnegan Science Coordinator: Dianne Jellie
Citrus Elementary School	Principal: Kimberly Garcia Science Coordinator: Julie Rhue
Dodgertown Elementary School	Principal: Aretha Vernetta Science Coordinator: Elizabeth LaViska
Fellsmere Elementary School	Principal: Ramon Echeverria Science Coordinator: Meaghan Morales
Glendale Elementary School	Principal: Casandra Flores Science Coordinator: Jessica Porter
Indian River Academy	Principal: Kelly Good Science Coordinator: Rachel Page
Indian River Home School Assn (IRHSA)	Coordinator: Heather Holden Science Coordinator: Alison Dudney
Liberty Magnet School	Principal: Takeisha Harris Science Coordinators: Debra Morse & Kimberly Morrow
Osceola Magnet School	Principal: Chadwick Bacon Science Coordinators: Kathryn Woodall and Marianne Thomas
Pelican Island Elementary School	Principal: Felicia Bagley Science Coordinator: Samantha Glickstein
Rosewood Magnet School	Principal: Adam Faust Science Coordinators: Lori Hanlon and Samantha Siquig
Sebastian Elementary School	Principal: Letitia Whitfield Science Coordinators: Margaret Ganger & Elizabeth Shukri
Treasure Coast Elementary School	Principal: Scott Simpson Science Coordinator: Amy Getchell
Vero Beach Elementary School	Principal: Lindsey Matheny Science Coordinator: Marsha Roberts
The Willow School (WIL)	Principal: Peter Turner Science Coordinator: Felicia North

Elementary Division By School

Beachland Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Melody Van Os, Reece Noe	Go Car Go	Ms. Palau
1	Hadley Porter, Max Marques	Super Flower Power	Ms. Brown
2	Ella Guettler, Delta Perinel	Keeping It Cool	Ms. Jellie
3A	Tatiana Sierra, Ama Faucheux	Bending Light	Ms. McDaniel
3B	Annie Converse, Azya Scott	Soil Solutions	Ms. Masterson
3D	Reva Ullian	A Sticky Situation	Ms. Johnson
3D	Quinn Krough	Falling Apples	Ms. Johnson
4A	Julianna Sosa, Clark Schad	Electro Magnet	Ms. Connaughton
4B	Fiona Lumley, Addie McClellan	Electro Magnet	Ms. Connaughton
4E	Alicia Nutt	What Medium Affects the Refraction of Light	Mr. Kolesnik
4F	Amal Hasan	Electro Magnet	Mr. Kolesnik
4E	Gavin Jones, Coleson Radecke	Rotten Fruit	Ms. Connaughton
4F	Mary Kolakowski	Dye It Up	Ms. Connaughton
5A	Hazel Maxwell, Armani Stinson	Plummeting Parachutes	Ms. Crisafulli
5B	Bobby Myhre, Athena Guincho	Drink Up, Celery Stalk!	Ms. Neely
5E	Quinn Coya, Henry Dilella	Sun Bum	Ms. Karwatske
5F	Uma Crisafulli	Banana Biofuel	Ms. Karwatske
5E	Alex Singh	Natural Vs. Chemical Fertilizer	Ms. Karwatske
5F	Carson Weir	Different Conductors of Electricity	Ms. Charles

Citrus Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Harper Kita, Kimberly Daskin	Dissolving Candy Corn	Mrs. Vanbuskirk
1	Erika Pridgeon, Julia Vanbuskirk	Catch a bubble	Ms. Pylant
2	Parker Defiglia, Kyla Franklin	Rethink Your Drink	Mrs. Seijo
3A	Luke Murphy, Gabe Kreiser	Candy Corn Catapult	Miss Del Tufo
3B	Abigail Eastwood	Magic Balloons	Mr. Partlow
3C	Nidia Lazo	Magic Balloons	Mr. Partlow
3A	Ashley Clark, Logan Delo	The Car and The Ramp	Ms. St. Pierre
4A	Jewel Gardiner	Light Seed	Ms. O'Bee
4B	Vincente Fuentes, Tristen Deluca	Ramp Rollers	Ms. O'Bee
4C	Sky Scott, Tommy Parrish	What if The Boat Can Float	Mrs. Clement
4D	Audree Farruggia, Lionna Monplaisir	Light Speed	Miss Embrey
4C	Angel Crescencio, Michelle Ramirez	Can The Boat Float?	Mrs. Clement
4D	Jesus Madrigal	How Light Affects Plants?	Ms. O'Bee
5A	Camden Seeley	Marble Shootout	Mrs. Demmy
5B	Hunter Ramos, Giovanni Giresi	Feel The Heat	Mr. Reed
5C	Brodie Snyder, Carlos Hernandez	Don't Weigh Me Down	Mrs. Demmy
5D	Javoun Landon-Lewis, Jaylen Johnson	Carrying Your Weight	Mrs. Demmy
5A	Kaselynn Griffin, Guadalupe Oliveros	Which Shape Holds The Most Weight?	Mr. Reed
5B	Sonia Guzman	Fruit Power	Mrs. Richardson

Elementary Division By School

Dodgertown Elementary School

Grade	Presenting Students	Project Title	Teacher
1	Malaki Perry, Skylar Moffett	Color Changing Flowers	Mrs. Degraeve
3A	Alexis Flores, Alexander Metcalfe	Disappearing Rainbow	Mrs. McNight
3B	Emilio Artiles, Khloe Coffey	Colorful Celery	Mrs. Reed
3D	Cannon Henry, Adrian Mar Ramirez	Flying High	Mrs. Simmons-Scott
4E	Noah Barksdale, Marcel Lawson	Collision Course	Mrs. Maddalon
4F	Kyndall Duhart, Alisson Ramos	The Energy of Cars	Mrs. Maddalon
5E	Gabrielle Jones, Camille Matthews	African Elephant Bridge	Mrs. Forier
5F	Ella Nyabwa, Joel Gonzalaz Barrera	Lion-Tailed Macaque Bridge	Mrs. Forier
5E	Owen Arnold, Samuel Langdon	Bornean Orangutan Bridge	Mrs. Forier

Fellsmere Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Juliana Hernandez, Luis Cantu	Colorful Chocolates	Ms. Ruiz
1	Abigail Soliz, Ian Medina Mar	Ant Picnic	Ms. Kramer
2	Alan Moreno, Delanie Madrigal	Roll On!	Mrs. Daniele
3A	Briana Posadas Guardado, Juancarlos Morales	We've Got the Beat	Ms. Reed
3B	Alan Garcia, Heidy Alavez	Pump Up the Jams	Mrs. Huber
3C	Angela Gonzalez, Yaneli Gamez	Fellsmere Catapults	Ms. Kus
3B	Alondra Espinoza, Vladimir Gamez Cano	Music to My Heart	Miss Bakhuizen
4A	Mariely Alvarez, Esmeralda Romero	Soakin' in the Sun	Ms. Becker
4B	Marycarmen Ramos, Angel Rodriguez	Radish Worms	Mrs. Stemle
4C	Aileen Zendejas-Zamora, Sofia Gamez	Surviving on Caffeine	Mrs. McCarty
4D	Jimena Benitez, Diana Garcia	Sipping on Soda	Mrs. McCarty
4A	Anthony Nunez, Zahid Espinoza	Soil Helpers	Mrs. Zugay
4B	Victoria Perez, Abigail Bravo Mejia	Aiding the Growth	Mrs. McCarty
5C	Montserrat Garcia, Dejah Figueroa	Marble Mania	Ms. Wickham
5D	Karena Espinoza, Anesia Mills	Electric Power	Mrs. Almeyda
5A	Selena Jimenez, Alejandra Villada Castillo	Ready Set Go Marbles	Mrs. Williams
5B	Bentley Blackburn, Osiel Vidal	Mass and Marbles	Mr. Wolfe
5C	Bella Guzman, Heidi Olivo	The Grand Canyon of Marbles	Mrs. Williams
5D	Alex Molinar, Edgar Hernandez	The Mass of a Marble	Mrs. Almeyda

Elementary Division By School

Glendale Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Michael Viamontes, Joshua Favela	Need For Speed	Ms. Bey
1	Bryson Peterson, Kai Howle	Lettuce Grow	Ms. Graham
2	Jaxon Porter, Guage Orton	Which Works WELL?	Mrs. Olsson
3A	Wyatt Bosko, Jaiden Dewey	How Light Affects Plant Growth	Mrs. DiPietro
3B	Owen Barrie, Candy Sears	How Light Affects Plant Growth	Mrs. Bohen
3C	Jayden Shaw, Sonia Benjamin	How Light Affects Plant Growth	Mrs. Stenstrom
4A	Tyler Vittorino, Kaya Ortiz	Does Mass Matter?	Mrs. Skinnider
4B	Caleb Phillips, Errionna Daceus	Cars Powered by Wind	Mrs. Napier
4C	Aaliyah Casper, Konnor Wiley	Wind Powered Cars	Ms. Poysell
5C	Weston Clinton, Michael Feliciano	Space (Y) Launch	Mrs. Walton
5D	Mikylei Arbogast, Izabella Halk-Bedolla	Get Me Off This Planet	Mrs. Walton

Indian River Academy

Grade	Presenting Students	Project Title	Teacher
1	Riley Maher, Brandon Chasteen	Magnets Are Attractive	Mrs. Sakany
2	Lilliana Baker, Desirae Turner	Try To Keep It Cool!	Mrs. Roberts
3A	Jazzlyn Bryant, Emmalynn Guthrie	Mountain of Water	Mrs. Chappelear
3B	Samantha Steigerwald, James Thornton	Gummy Bear Growth	Mrs. Chappelear
4A	Briana Carrasco, Andy Amador	Paper Airplane Test	Miss Luna
4B	Alyssia Solomon, Giuliana Johnson	Fabric of Life	Miss Luna
4C	Cayden Melendez, Aaron Raya	Friction Frenzy	Ms. Baird
4D	Hannah Smith, Giselle Torres-Urieta	Marble Race	Ms. Baird
5A	Colton Mitchell, Cornelius Rhoden	TBD	Mrs. D'Albora
5B	Jocelyn Rosales-Trejo, Mahlia Martin	TBD	Mrs. D'Albora
5C	Titto Harvey	TBD	Mrs. D'Albora
5D	Ivonte Brown	TBD	Mrs. D'Albora

Indian River Home School Association

Grade	Presenting Students	Project Title	Teacher
2	Aidan Dudley	Mass Vs. Speed	Mrs. Dudley

Elementary Division By School

Liberty Magnet School

Grade	Presenting Students	Project Title	Teacher
K	Eloise Edmiston, Gage Jaffe	Pumped Up Plants	Mrs. Morrow
1	James Callaghan, Henry Pearsaul	Balloon Blow Up	Mrs. Morse
2	Henry Spillis, Tenlee Dabelow	Water Beats Rock	Mrs. Lunsford
3A	Ezra Munera, Aiden Mullins	"Eggs"-periment	Ms. Borruso
3B	Ketch Mahoney, Sienna Gomez	Oil on the Track	Mrs. Antosh
3C	Joy Peters, Noah Terneus	Gum Fun	Mrs. Hoag
3C	Jacob Bailey, Oliver Thomas	To Float or Not to Float	Ms. Johnson
4A	Reagan Rea, Char'na Shelton	Will the Egg Survive?	Mrs. Riley
4B	Aiden Hall, Anara Heeschen	Drag or No Drag	Mrs. Prince
4C	Mason Waddell, Ryan Kirkman	Which One's Better?	Mrs. Riley
4D	Sarah Adams, Chloe Camp	Fading Rainbow	Mr. Daulby
4A	Alexander Kulenovic, Dylan Porazzo	Bubble Trap	Mrs. Decaro
4B	Thomas Hand, Nicholas Perez	Racing Color M & M's	Mr. Daulby
5A	Harper Hall, Chauncy Stovall	Soak 'n It Up	Mrs. Durham
5B	Jane Beckert, Emily Ogilvie	Going the Height	Mrs. Bias
5C	AJ Francis, Bradyn Foxwell	Going the Distance	Mrs. Bias
5E	Gabriella Coletti	Rock On	Mrs. Bias
5F	Alexis Pumphrey	Can You "Dis"solve This Mystery?	Mrs. Bias
5F	Madelyn Holbrook	Soap and Bubbles	Ms. Gerhardt

Osceola Magnet School

Grade	Presenting Students	Project Title	Teacher
K	Michael Eisenmann, Emma Bilyeu	Goldilock's Chair	Mrs. Kipp
1	Elise Glover, Olivia Jacobs	Float Your Boat	Ms. Wood
2	Benjamin Raya, Trinity Turner	Ada Twist's Smeller	Mrs. VanAuken
3A	Willow Metzger, Shareef Moobark	Heat Waves	Mrs. Wagner
3B	Dan Vasiliu, Logan Copeland	Brilliant Science	Mrs. Oberlink
3C	Michael Irish, Idunn Dogsdottir	Sun Solar	Mrs. Birnholz
3B	Isla Spilman, Erich Stanton	Ink Box	Mrs. Glaser
4A	Keral Deynes Pena, Prince Nazaire	Insulation Superstars	Ms. Borengasser
4B	Jaxson Rodgers, Mason Maddox	Insulator Design Challenge	Mrs. Morrow
4C	Will Harris, Connor Hayes	Conduction Villians	Mr. Antosh
4D	Annabelle Whiting, Casey Watkins	Project Insulation	Ms. Clemenzi
4C	Morgan Thompson, Arabella Doutrich	Perfection Insulation	Mr. Antosh
4D	Emily Nance, Olivia Brown	Flaming Hot Insulator	Mrs. Morrow
5C	Soraya Casares, Peyton Carlton	Ember - Mrs. Murdo's Apartment	Mrs. Woodall
5D	Ryley Neal, Isabelle Glaser	Ember - Lina & Murdo	Mrs. Cathcart
5A	KJ Darnell, Ella Massagee	Best Bridges & Beyond	Mrs. Woodall
5B	Jack Tripson, Angel Oliva	Ember - Doon & Granny	Mrs. Woodall
5C	Everett Manera	Ember - Generator Room	Mrs. Bruckner
5D	Abby Dupay, Annslie Clemons	ABA Bridges	Mrs. Bruckner

Elementary Division By School

Pelican Island Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Angel Keeble, Cannon Matthews	Catch That Pollution	Bartolini
1	Jonathan Rufe, Emery LaPorte	Cool Seeds	Anderson
2	Colbie Taylor, Kylieangel Keefer	Meltdown Showdown	Thimmer
3A	Sebatian Willems, Olivia McCabe	Investigation of the Decomposing Straws	Lott
3B	Richard Dawsey, Maddi Curran	Decompose for the Planet	Lott
3C	Prince Snell, Dakota Sanderson	Straws vs. Water	Lott
3C	Paris Snell, Brody Tibbets	The Powerful Straws	Lott
4A	Aitzaz Khan, Lion Kebble	What's the Mass?	Olayinka
4B	Kimberly Cruz, Gianella Arsenault	Marbles & Mass	Olayinka
4C	Param Patel, Evan Magdaleno	Does Mass Matter?	Olayinka
4D	Caroline Goodale, Teagan Lenderman	How far can it go?	Olayinka
4D	Rebecca Wehrberger, Karina DeLeon	Marble Race	Olayinka
4C	Jaelyn Joyner, Maryah Winkle	Marble Mania!	Olayinka
5A	Jayden Carter, Alonna Antinozzi	Glacier Melting! Not Cool! The Glacier Part, Not our Project!	Glickstein
5B	Kendall Pollacek, Samantha Reece	Shockingly Clean Water?!	Glickstein
5C	Prince Louisius, Jacob Lambardino	Is it Really Pure?	Glickstein
5E	Beyonca NcCrary, Heidi Little	Toilet Paper Expense	Glickstein
5F	Alanah Gedeon, Adalyn Munshower	Speaker 3000	Glickstein
5E	Micah Johnson, Karver Collins	DIY	Glickstein

Rosewood Magnet School

Grade	Presenting Students	Project Title	Teacher
K	Cayden Apolinario, Rocky Prudenti	Solar Catchers	Mrs. Lewis
1	Thomas Plower, Ava Horton	Apples, Apples, Apples	Mrs. Keane
2	Malachi Gray, Brock Dawson	How Fast Is The Fizz?	Mrs. Palmer
3A	Lilliana Farley, Sydnee Arrowsmith	Beat The Heat	Mrs. Celaya
3B	Chehon Wallace	Bubble Maker	Mrs. Bradshaw
3D	Cristian Hurtado	The Ants Come Marching One By One	Mrs. Siquig
3D	Paisynne Pressley	Feeding Plants	Mrs. Siquig
4A	Rylan McLaughlin, Andres Garcia	Merry Science	Mrs. Hanlon
4B	Carter Trimm, Vinson Stokes	Magnificent Magnet Movement	Mrs. Cade
4E	Ali Crawford	Enzymatic Browning Of Apples	Mrs. Hanlon
4F	Rebecca Taveras	Bubbles Or No Bubbles	Mrs. Zwemer
4E	Lydia Lewis	Wifi Signal Strength	Mrs. Zwemer
4F	Camden Payne, Logan Henderson	Soccer Ball Speed Test	Mrs. Hanlon
5A	Maddox Regoord, Jaelynn Patterson	Grow Or No?	Mrs. Koetzner
5B	Ka'Lynn Pound, Jorden Bronson	Tall Or Not At All?	Mrs. Watkins
5E	Sydney Swink	How Greasy Are Your Potato Chips?	Mr. Trahan
5F	Lupe Garcia	Hydroponics Nutrients or Not?	Mrs. Williams

Elementary Division By School

Sebastian Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Scarlette Shukri, Hailey Braun	Dissolving Sweets	Ms. Isler
1	Olivia Suarez, Brantley Ward	Eggshell in Vinegar	Ms. Manfredi
2	Hailey Encarnacion, Ben Mooradian	Candy Snap	Mrs. Turner
3A	Nia Ciceron, Emily Patton	Color Changing Flowers	Mrs. Massaroni
3B	Rebecca Blanco, Timothy Bardwell	Coloring Flowers	Mrs. Massaroni
3C	Laderick Wellmaker , Levi Stutzman	Flowers vs. Color	Mrs. Massaroni
4A	Calleigh Beatty, Zophia Galyean	Don't Be a Salty Egg	Mrs. Kirk
4B	Khloe Halstead, Mckenzie Warren	Soda Static	Mrs. Kirk
4E	Sophia Schmidt, Taelor Beatty	To Rust or not to Rust?	Mrs. Kirk
4F	Leah Jerez, Brianna Baker	Changing Gummy Bears	Mrs. Kirk
4E	Olivia Montandon	Candy Kool-Aid	Mrs. Kirk
4F	Makayla Exantus	Salt Crystals	Mrs. Kirk
5D	Tyler Uebel	Airplanes	Mrs. Hale
5A	Kaleb Wilson	What dish soap cleans the best?	Mrs. Hale
5E	Valentino Romero	Farthest Flight	Mr. Post
5F	Brianna Feagin	Which fabric dries the fastest?	Mr. Post
5E	Delilah Navarrette	Gummy Bears	Mr. Post
5F	Valentino Schultze	Soaptastic	Mrs. Hale

Treasure Coast Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Lilah Dimatteo, Aria Grace	Moving Magnets	Mrs. Junek
1	Audriana Borbone, Annalise Pizzuti	3-2-1 Blast Off!	Ms. Buccaccio
2	Samuel Hodges, Angel Powell	Growing Gummies	Mrs. Davis
3A	Cayden Pizzuti, Irene Raya	Changing the Height of Inclined Plane	Mrs. Frame
3B	Kali Kragh, John Leisenring	Cherry Juice Stains	Mrs. Blankenship
3C	Amelia Printer, Victoria Graham	The Effect of Mass on the Distance of Ball Throws	Mrs. Frame
3C	Daren Mazzolini, Alexander Colman	Wheel-ease	Mrs. Benham
4A	Jaiden Wisenbarger, Levi Daily	Gummy Fun	Mrs. Ramos/Goddard
4B	Douglas Borbone, Ensley Flood	Battling Germs	Mrs. Erney
4C	William Frayser, Julieta Gallegos	Butter Believed it Melted	Ms. Tiver
4F	Daisy Maldonado	Paper Air Planes	Mrs. Erney
4E	Reagan Rollman, Gabby Thall	Which Slime is the Stickest?	Mrs. Erney
5A	Ellison Vickers	Solar Spud	Mrs. Coyle
5B	Jaxtyn Ohler	Bottle or Tap, Which one is Crap	Mrs. Pope
5E	Kaylee Kosuk	Take a Candle Carousel for a Spin	Mrs. Stull
5F	Jimmy Rinella	Salty Eggsperiment	Mrs. Stull
5E	Treysen Rains	Plop Plop Fizz Fizz	Mrs. McNabb
5F	Allie Boogaert, Brady Boogaert	Spray What? Are face coverings effective?	Mrs. Marsella/Coyle

Elementary Division By School

Vero Beach Elementary School

Grade	Presenting Students	Project Title	Teacher
K	Bryce Rich, Kelcie Merritt	Dancing Rice	Ms. McCall
1	Kevin Marquez, Aaliyah Florez	Germ Fighters	Ms. Mosher
2	Terrance Peterson, Grace Newman-Butler	Magnetism	Mrs. Canevari
3A	Wyatt Ferrel, Huzayl Hussain	The Window Effect	Ms. Redstone
3B	Gianna Smith, Kalia Gregory	The Size Effect	Ms. Redstone
3C	Jahziel Castro	Ice Ice Baby!	Ms. Redstone
3C	Aamilah Dunbar	Colors and Heat	Ms. Redstone
4A	Camryn Barnum, Terrel Wilson	Dissolving Skittles Rainbow	Ms. Strain
4B	Brady Trumble, Yasmin Almeida	Skittle Surprise	Ms. Strain
4C	Abi Lopez, Danica Hilbert	Have an ice day #1	Mr. Trumble
4D	James Dennis, Kira Bullard	Have an ice day #2	Mr. Trumble
4C	Michael Obannon-El, Malik Williams	Sinking Marbles	Ms. Morell-Vega
5C	Yahaira Gomez, Alondra Marquez	Car Washers	Mrs. Berwick
5D	William Zheng, Greyer McCombs	Rough Roads	Mrs. Berwick
5A	Solis Cruz, Jossenyd Castro	Sugar Rush	Mrs. Berwick
5B	Daniel Rodriguez, Justin Peables	Several Stellar Solar Stoves	Mr. Conway
5C	Aliyana Negron, Isabella Campisano	Saving The Lagoon	Ms. O'Neal
5D	Ryan Grant, Korian Evans	Clean Enough to drink	Ms. O'Neal

The Willow School

Grade	Presenting Students	Project Title	Teacher
1	Garrett Durjan, Gabrielly Manera	Musical Plant	Ms. Mullins
4F	Oleci Medelye, Abrianna Vega	White 2 Blue	Ms. Murphy

Junior & Senior Divisions

Schools and Science Coordinators

Gifford Middle School
(GMS)

Principal: Tosha Jones
Science Coordinators: Carlean Browning, Liliana Barrett,
and Brandon Grimison

Indian River Home School Assn
(IRHSA)

Coordinator: Heather Holden
Science Coordinator: Alison Dudney

Oslo Middle School
(OMS)

Principal: Eddie Robinson
Science Coordinator: Cole Cairl

St. Edward's Middle School
(STEDS - M)

Principal: Keira Murphy
Science Coordinators: Karl Leonhardt and Les Rogers

Sebastian Charter Junior High
(SCJH)

Principal: Bill Dodds
Science Coordinator: Christina Brako

Sebastian River High School
(SRHS)

Principal: Christopher Cummings
Science Coordinator: Karyn Daniel

Sebastian River Middle School
(SRMS)

Principal: Todd Racine
Science Coordinators: Roberto Crespo and Patti Schultz

Storm Grove Middle School
(SGMS)

Principal: Anne Bieber
Science Coordinators: Lisa Presti, Joan Martinelli, Joseph
Refsland, and Ashley Rollin

Vero Beach High School
(VBHS)

Principal: Shawn O'Keefe
Science Coordinator: Nicole Mosblech

The Willow School
(WIL)

Principal: Peter Turner
Science Coordinator: Felicia North

Junior & Senior Divisions

By Category

Animal Sciences

Project #	Presenting Student:		Project Title:	School
ANIM-150	Anthony	Sapienza	Go Away Flies!	SRMS
ANIM-151	Ava	Cooke	Buzzy Bee Lunch	SGMS
	Raquelle	Spalding		
ANIM-152	Jonathan	Shanad	Ants Attraction! Let's See the Reaction!	OMS
ANIM-153	Peyton	Corbett	Hungry Ants	SRMS

Behavioral & Social Sciences

Project #	Presenting Student:		Project Title:	School
BEHA-250	Avi	Johnson	Mind Madness	SGMS
BEHA-251	Lily	Tate	Distraction Reaction	GMS
BEHA-252	Tyler	Simpson	You Make the Call	SRMS

Biomedical & Health Sciences

Project #	Presenting Student:		Project Title:	School
BMED-350	Anna	Frankenberger	We're in Hot Water	GMS
BMED-351	Ella	Killman	Look Close at Glucose	OMS
BMED-352	Kiersten	Tate	Goodbye Sunburn, Hello Protection	GMS
BMED-353	Michael	Gonzalez	Mask Effectiveness	SCJH
BMED-354	Nora	Bumgarner	Dissolve the Pain	OMS
BMED-355	Payton	O'Neill	Brush It Off	GMS
BMED-356	Torrilynn	Roux	Loopy Lungs	SCJH
	Sara	Luna		
BMED-357	Veronica	Kostan	Are Your Lungs in Shape?	SRMS

Cellular/Molecular Biology & Biochemistry

Project #	Presenting Student:		Project Title:	School
CMBI-400	Anthony	Cagle	Protein, Pepsin, and Protolytic Cleavage	SRHS
CMBI-401	Nicole	O'Neill	Pectinase Temperature and Apple Juice Production	SRHS
CMBI-450	Nicholas	Rosario	DNA Differences in Fruit	IRHSA

Junior & Senior Divisions

By Category

Chemistry

Project #	Presenting Student:		Project Title:	School
CHEM-550	Amelia	Pasqualone	Rising Cookies	SRMS
CHEM-551	Baye	Young	Cookie! Cookie! Cookie!	SGMS
CHEM-552	Brandon	Cone	The Great Hydrate Debate	GMS
CHEM-553	Brionna	Cooper	Shimmering Pennies!	SCJH
	Madison	Spinelli		
CHEM-554	Andrea	Cantor	Sugar Rush	SRMS
CHEM-555	Beth	Farnham	Oh, So Blue!	SGMS
CHEM-556	Corin	Suthard	That's So Iron-ic!	SRMS
CHEM-557	Elijah	Gray	Relative Revolution	SGMS
CHEM-558	Emily	Christensen	Egg Geode	OMS
CHEM-559	Aubrey	Ford	Glucose On The Brain	SRMS
CHEM-560	Cadence	Blackwell	Eggscelent Replacements	SGMS
CHEM-561	Devin	Desai	The Lotion Commotion	SCJH
CHEM-562	Emma	McElroy	Enzymes Do What?	SRMS
CHEM-563	Jaylynnne	Moise	Bubble Bubble	GMS
CHEM-564	Nathan	Kalloch	Which drink leaves the hardest stain on eggs?	OMS
CHEM-565	Ava	Cichewicz	Which Is the Quickest Dissolving Ibuprofen Pill?	SRMS
CHEM-566	Justin	Tun	Pill Affects	GMS
CHEM-567	Noah	Smith	Pop, Fizz, Data	OMS
CHEM-568	Sarah	Murphy	Corrosion in Action	SGMS
CHEM-569	Shelby	Riker	Bendy Bones	SCJH
CHEM-570	Izabella	Waligora	Sweet Sweet Jello	SRMS
CHEM-571	William	Watson	Money Laundering	OMS
CHEM-572	Zack	Franco	Electrolyte Insight	GMS
CHEM-573	Shane	Bissonnette	Wick Be Nimble	SRMS
CHEM-574	Bruno	Barreirinhas	Salt Concentration	STEDS-M
	Mark	Moore, Jr		
	Brandon	Cochrane		

Junior & Senior Divisions

By Category

Earth and Environmental Sciences

Project #	Presenting Student:		Project Title:	School
EAEV-600	Bianca	Hernandez	Effect of Fertilizer on Duckweed Growth	SRHS
EAEV-650	Addison	Ames	Salvinia Minima: Environmental Friend or Foe	GMS
EAEV-651	Jack	Curley	Solar Saving	STEDS-M
	Will	Lockwood		
EAEV-652	Ariana	Bolton	Global Warming on the Rise	SGMS
EAEV-653	Dallas	Bruce	Milk Plastic Madness	GMS
EAEV-654	Brandon	Nevarez	Pests Go Away! This water is mine!	SGMS
EAEV-655	Annabelle	Robins	0-14, How Basic Are You?	GMS
EAEV-656	Lili	Hughes	Why So Salty?	SGMS
EAEV-657	Lilian	Amos	Plastic Palate	GMS
EAEV-658	Matthew	Montalbano	Eroding Pipes	SRMS
EAEV-659	Scott	Dior	Because we drive, animals may not survive!	SGMS
EAEV-660	Mikayla	Bertrand	The Unfiltered Truth About Air	GMS

Engineering (Engineering Mechanics, Material Science, Embedded Systems)

Project #	Presenting Student:		Project Title:	School
ENMS-750	Alora	Morris	Maximizing Power from a Solar Panel	SGMS
ENMS-751	Aniela	Kelley	The Finnish Line	OMS
ENMS-752	Brady	Kommer	Sticky Bridge	WIL
	Troy	Bishop		
ENMS-753	Angus	Sutherland	The Drawbridge to Terebithia	SGMS
ENMS-754	Brandon	Walker	Bridge Bunch	GMS
ENMS-755	Charlize	Jijon	It's Getting Hot in Here!	SGMS
ENMS-756	Fiza	Qizilbash	How Can Wind Turbines Create More energy?	SCJH
ENMS-757	Samantha	Baudo	Sun Housing	GMS
ENMS-758	Grayson	Stewart	Pool Duel	SGMS
ENMS-759	Jagger	Naffziger	Bridge Madness	GMS
	Kali	Staniewicz		
ENMS-760	Ethan	Christensen	Amplified Action	OMS
ENMS-761	Shayne	Bender	The Gauss Rifle	SGMS

Junior & Senior Divisions

By Category

Enviormmental Engineering

Project #	Presenting Student:		Project Title:	School
ENEV-850	Cesar	Dato-Slattery	How Bubble Size affects CO2 Capture.	STEDS-M
ENEV-851	Caroline	Mills	Pollution Solution	SGMS
ENEV-852	Will	Fernandez	Pollution Solution	STEDS-M
	Edwin	Provancher		

Mathematics & Computational Science

Mathematics, Computational Biology and Bioinformatics

Project #	Presenting Student:		Project Title:	School
MACO-1050	Addison	Breen	Population Model Magic	SGMS
MACO-1051	Hunter	Cook	Masks, Masks, and More Masks 2	SCJH
MACO-1052	Louis	St. Petery	Need 4 Speed	SRMS
MACO-1053	Ben	Searcy	Switched	SGMS

Microbiology

Project #	Presenting Student:		Project Title:	School
MICR-1100	Elizabeth	De Schouwer	Impact of Medium Transfer Time of Electroporation of E. Coli HB101	VBHS
MICR-1150	Aimee	Echeverria	Soap vs Hand Sanitizer	SGMS
MICR-1151	Lilyana	Wilsnack	Bacteria Be Gone	SRMS
MICR-1152	Kandice	Gonzalez	Laptop vs Door Handles	SGMS
MICR-1153	Gianna	D'Elia	Bubble Bubble	SGMS

Junior & Senior Divisions

By Category

Physics and Astronomy

Project #	Presenting Student:		Project Title:	School
PHYS-1250	Ruby	DeGroat	Fragile Handle with Care	GMS
PHYS-1251	Caitlin	Swanson	Magnetism Hot or Not	SGMS
PHYS-1252	Elise	Hale	Fire and Water	GMS
PHYS-1253	Elizabeth	Bryant	6 Feet Apart	SRMS
PHYS-1254	Gabrielle	Campione	Blinded by the Light	GMS
PHYS-1255	Giovanni	Russo	Modular Mattress	SCJH
PHYS-1256	Haley	Ankeny	Sweet and Solar	SGMS
PHYS-1257	Hamilton	Arden	Who's the leader? Braid or Mono?	GMS
	Cameron	Melilo		
PHYS-1258	Jacob	Simpson	Where's The Wifi	SRMS
PHYS-1259	Jaxson	Weese	Paying to Go the Distance	SGMS
PHYS-1260	Ja 'Niya	Hall	Sizzle, Sizzle, Sizzle	GMS
PHYS-1261	Kyle	Spence	May the Strength be with You	SCJH
PHYS-1262	James (Finn)	Genoni	What Makes Ice Melt Faster?	GMS
PHYS-1263	Joaquin	Malave-Medina	Are two engines better than one?	SGMS
PHYS-1264	Olivia	Fox	Light Magic	SRMS
PHYS-1265	Oliver	Justice	Stealthy Aircrafts	GMS
	Sebastian	Yrigoyen		
PHYS-1266	Merrick	Therien	Composite Versus Aluminum Baseball Bats	SCJH
PHYS-1267	Joniah	Holson	Balls of Juice	SRMS
PHYS-1268	Prisha	Patel	Newton's Cradle	SGMS
PHYS-1269	Kaegan	Mclaughlin	Battle of the Briquettes	GMS
PHYS-1270	Yaretzi	Rodriguez	Homemade vs Store bought	SGMS
PHYS-1271	Trey	Piakis	No Oxygen	GMS
PHYS-1272	Alex	Delamarter	Cool Waters from Common Items	SCJH
PHYS-1273	Rainey	Johnson	Slow Falling	SGMS
PHYS-1274	James (Jay)	Hunt	Purified	GMS
PHYS-1275	Katelyn	Beare	Cooling Rate vs Ice Depth	STEDS-M
PHYS-1276	Seamus	Moylan	Bullet Ballistics	STEDS-M

Plant Sciences

Project #	Presenting Student:		Project Title:	School
PLNT-1300	Tristan	Dales	Transpiration and wind speed	SRHS
PLNT-1350	Addison	Coya	Growing Music	GMS

Junior & Senior Divisions

By Category

PLNT-1351	Ahnolah	Quigley	Plant Growth	SRMS
PLNT-1352	Aidan	Lloyd	Fruitful Findings	GMS
PLNT-1353	Alexander	Cordova	Which Water	SRMS
PLNT-1354	Amariah	Mysiuk	Earthworm Fiasco	OMS
PLNT-1355	Angelina	Di Sisto	In Bloom	SCJH
PLNT-1356	Anned	Greganga	It's Raining Coffee	GMS
PLNT-1357	Arya	Padnuk	Cool Beans	SCJH
PLNT-1358	Austin	Banzhaf	Does the seed temperature affect plant growth?	GMS
	Devin	Monplaisir		
PLNT-1359	Camila	Rosero	Red, White or Blue?	SGMS
PLNT-1360	Colin	Joseph	Let it Grow, Let it Grow, Let it Grow	SCJH
PLNT-1361	Ben	Powers	How different fertilizers affect plant growth?	GMS
PLNT-1362	Ediana	Baptichon	The Violas of Music	SRMS
PLNT-1363	Evan	Schneider	Silver Seeds	SGMS
PLNT-1364	Charlotte	Muller	Pollutants on Plants	GMS
	Kathy	Phan		
PLNT-1365	Evangeline	Dodson	Colorful Sweet White Violets!	SRMS
PLNT-1366	Gianna	Dykes	Vermiponics: Wiggly Worms to the Rescue	SCJH
PLNT-1367	Jaya	Vernese	Salty Sprouts	OMS
PLNT-1368	Jessica	Mott	How High Will it Grow	GMS
PLNT-1369	Kaeley	Ciceron	Plant Buddies	SRMS
PLNT-1370	Kaitlyn	Klein	Plant the Moon	SGMS
	Gabriela	Rojo		
PLNT-1371	Kaleb	Katzor	Red, Blue Green, White Is Growth Affected...	GMS
PLNT-1372	Lucy	Vasiliu	Harmful or Helpful	SCJH
PLNT-1373	Madison	Sharland	Blossoming Through Music	SRMS
PLNT-1374	Maia	Wallace	Plant Growth By Color	GMS
PLNT-1375	Rachel	Di Sisto	Life or Death?	SCJH
PLNT-1376	Tristin	Turner	Elaborate Light Labyrinth	WIL
	Jaiden	Caya		
	Ash	Burke		
PLNT-1377	Nya	Peters	Food Coloring Flowers	GMS
PLNT-1378	Shayne	Corley	Musical Plants	SCJH
PLNT-1379	Veciara	Harris	Tree Of Heaven	SRMS
PLNT-1380	William	Della Porta	Key Oats	GMS

Indian River Regional Science and Engineering Fair Expo & District STEAM Competitions

Friday, January 28, 2022

Indian River Regional Science and Engineering Fair Preparations:

Time	Event	Location
3:15 – 6:00 pm	Secondary Student (6-12 th Grade) Project Set up	Small Gym
3:30 – 6:00 pm	Elementary (Grades K – 5) Project Set up (Coordinators only)	Cafeteria
5:30 – 6:00 pm	Elementary Judge Orientation	Media Center
6:00 – 6:30 pm	Elementary Judge Preview	Cafeteria
6:30 – 7:00 pm	Secondary Judge Orientation	Media Center
7:00 – 7:30 pm	Secondary Judge Preview of all Projects	Small Gym

Saturday, January 29, 2022

Judge Schedule:

Media Center at Vero Beach High School

Time	Event
7:00 – 7:30 am	Secondary Judges check in Judging begins @ 8:00 am
8:15 – 8:30 am	Elementary Judges check in Judging begins @ 9:00 am
12:00 – 1:00 pm	Tabulation of results of Elementary Judging
10:30 am – 12:30 pm	Tabulation of results of Secondary Judging (Category Judging, Special Award Judging, and State Bid Judging)

Elementary Division Science & Engineering Competition Schedule:

Cafeteria at Vero Beach High School

Time	Elementary Judging
8:45 – 9:30 am	Wave 1 Schools: Beachland Elementary Glendale Elementary Osceola Magnet Treasure Coast Elementary
9:30 – 10:15 am	Wave 2 Schools: Pelican Island Elementary Indian River Academy Rosewood Magnet Vero Beach Elementary
10:15 – 11:00 am	Wave 3 Schools: Dodgertown Elementary Sebastian Elementary Liberty Magnet Willow School
11:00 – 11:45 am	Wave 4 Schools: Fellsmere Elementary Citrus Elementary Homeschool
11:45 – 2:00 pm	Public Viewing of Elementary Projects
2:00 – 2:30 pm	Display Removal of Elementary Project

Indian River Regional Science and Engineering Fair Expo & District STEAM Competitions

Secondary Science & Engineering Fair Competition Schedule:

Small Gym at Vero Beach High School

Time	Event
8:00 – 9:15 am	Secondary Judging Wave 1
9:15 – 10:30 am	Secondary Judging Wave 2
10:30 – 11:15 am	Secondary Judging Wave 3
11:15 – 12:00 pm	Public Viewing for Secondary Projects
12:00 – 12:30 pm	Secondary Project Take down and Removal

STEAM Competitions and STEAM Exhibit Booths Schedule:

Locations Listed

LEGO and Sphero Competition Schedules		
8:00 – 9:15 am	Set up for Lego and Sphero Competitions	Courtyard Area
9:15 – 10:15 am	Lego Spike Competition	Courtyard Area
10:30 – 11:30 am	Sphero Competition	Courtyard Area
Exhibit Booths Schedules		
8:00 AM – 9:00 am	Set up for Exhibit Booths	Courtyard Area
9:00 AM – 2:30 pm	Exhibit Booth Display	Courtyard Area
2:30 – 2:45 pm	Exhibit Booth Take down	Courtyard Area
Drone Competition Schedule		
12:30 – 1:00 pm	Drone Competition Set-up for High School	Small Gym
1:00 – 2:30 pm	Drone Wars: Vero Beach H.S. vs Sebastian River H.S.	Small Gym

Indian River Regional Science and Engineering Awards Schedule:

Elementary Division (K-5th Grade) Award Ceremony:

Tuesday, February 1, 2022 @ 6:00pm – 7:00pm
Sebastian River High School Performing Arts Center
9001 90th Avenue, Sebastian, FL 32958

Secondary Division (6th – 12th Grade) Award Ceremony

Thursday, February 3, 2022 @ 6:00pm
Sebastian River High School Performing Arts Center
9001 90th Avenue, Sebastian, FL 32958



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FSBO vs. Agent



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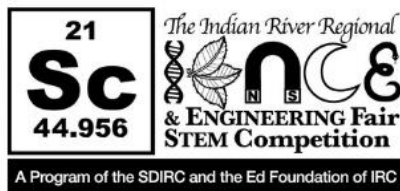
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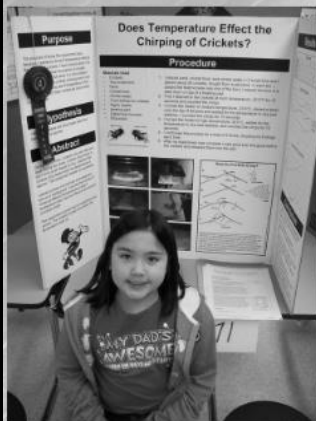
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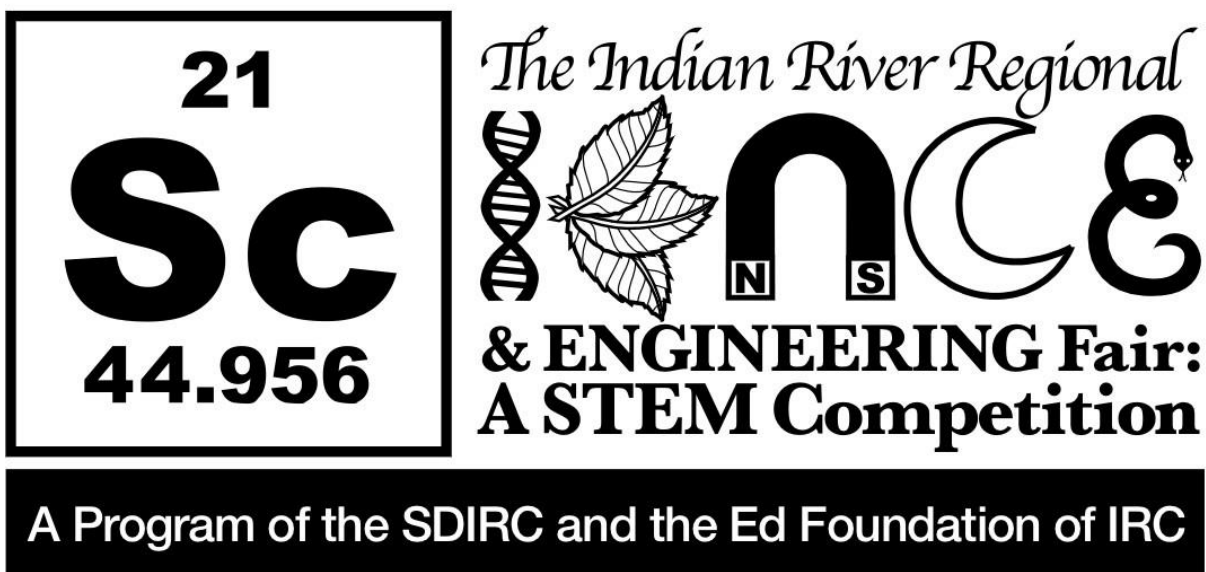
Alexi is a past Indian River County science fair competitor (4th through 12th grade). She graduated Summa Cum Laude from UF with a major in Plant Sciences and a minor in Entomology. She is currently at UGA for her Master's Degree in Plant Pathology. She never would have found her passion for plants or insects if it wasn't for the Indian River Regional Science Fair! She plans to pursue a Ph.D. in Plant Pathology so she can find cures to plant pathogens that effect food crops.



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2022 Indian River Regional Science & Engineering Fair!**