UNC Charlotte
Region 6
NC Science & Engineering Fair
2022 Awards Ceremony
Welcome
The UNC Charlotte NC Science & Engineering Fair is hosted and supported by the Center for STEM Education housed in the Cato College of Education.
2022 Special Awards Winners
Regional Winners
Division and Category
* Designates Advancement to State Fair
Broadcom Masters
ISEF Winners

All Judges’ Decisions are Final
Special Awards Winners

NC ONE Water

Award Winners will be notified by email
Special Awards Winners

U.S. Stockholm Junior Water Prize Nominees will receive be emailed information.

Award Winner will be notified by email.
Special Awards Winners
American Chemical Society

**Elementary**
First Place: Reva Khaire  *Laundry Detergents: Harmful or Helpful*

Second Place: Sadie Whitt  *Making Milk Plastic*

Honorable Mention
Lydia Weber  *My Slime Experiment*
Lavishka Doshi  *Egg-Free Baked Goods*
Shreeya Jadhav  *Which Liquid Freezes the Fastest?*
Special Awards Winners
American Chemical Society

**Junior**
First Place: Niles Nelson  *To Clean or Not To Clean*

Second Place: Mia McHugh  *A Need for Speed*

Honorable Mention
Nicholas Moore  *Steel Protection*
Lillyan Wall  *The Un-Sticky Situation*
Lizzy-Jane Ross  *To Prime or Not to Prime*
Special Awards Winners
American Chemical Society

**Senior**
First Place: Radhika Unnikrishnan
*Sustainable Fuel Cycle of the Future: Analyzing the effect of Cobalt and Copper based Catalysts in the Electrolysis of Water in an Electrochemical Cell*

Second Place: Kelly Smith & Zoe Deo
*Crime Scene Chemistry: A Forensic Investigatory Project on the Action of Luminol on Blood Stain Alternative*
<table>
<thead>
<tr>
<th>ISEF Regional Award Organization</th>
<th>Criteria</th>
<th>Winners</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Meteorological Society</td>
<td>For excellence in atmospheric and related oceanic and hydrologic sciences.</td>
<td>Evan Friday &amp; Tate Smith Whitney Williams</td>
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<td>American Psychological Association</td>
<td>For achievement in research in psychological science.</td>
<td>Pranav Pamula</td>
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<tr>
<td>ASM Materials Education Foundation</td>
<td>For most outstanding exhibit in materials science.</td>
<td>Abrianna Risner</td>
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<td>Mu Alpha Theta</td>
<td>For the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a high school student.</td>
<td>Harshitha Jasti &amp; Eesha Patel</td>
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<tr>
<td>NASA Earth System Science Award</td>
<td>Winning project, which best demonstrates insights into Earth’s interconnected spheres including different spheres of the Earth system, their interactions and change over time.</td>
<td>Shitij Govil, Aidan Lee &amp; Aiden McQueen</td>
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<tr>
<td>National Oceanic and Atmospheric Administration</td>
<td>The NOAA Award will go to one individual whose research emphasizes NOAA’s mission of Science, Service, and Stewardship.</td>
<td>Victoria Switzer</td>
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<tr>
<td>Ricoh USA, Inc.</td>
<td>This regional award is presented to the student whose research has demonstrated the principles and technical innovations that offer the greatest potential for sustainable development.</td>
<td>Rutwa Patil</td>
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<td>-------------------------------------------------</td>
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<td>U.S. Agency for International Development (USAID)</td>
<td>For scientific excellence and using science innovatively to create a potential solution to international development challenges.</td>
<td>Mason Sufnarski &amp; Josephine Barber</td>
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<td>U.S. Metric Association</td>
<td>For the best use of The International System of Units</td>
<td>Gabriel Mintz</td>
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<tr>
<td>United States Air Force</td>
<td>Outstanding Science Engineering Project</td>
<td>Ankit Biswas</td>
</tr>
<tr>
<td>Yale Science and Engineering Association</td>
<td>Most Outstanding Exhibit in Science, Technology Engineering and Mathematics</td>
<td>Narayani Garg</td>
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<td>National Geographic</td>
<td>The National Geographic That’s Geography! – Cultivating Empathy for the Earth Award is to be given to the project that focuses on issues of oceans, land, wildlife, human history &amp; cultures, and human ingenuity. The project brings geographic concepts and skills to life in new in non-traditional ways, targets underrepresented communities, has potential for scale, and brings innovation to the space and place.</td>
<td>Aadarsh Lakshmanan</td>
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<tr>
<td>Lemelson Early Inventor</td>
<td>Project best exemplifies the ideals of inventive thinking by addressing a challenge in a community and creating a solution that will improve the lives of others.</td>
<td>Conger Chalfant</td>
</tr>
</tbody>
</table>
Elementary Biological Sciences

*1. Colton Edwards, Union Grove Elementary

*2. Jack Dempsey, Charles H. Parker Academic Center

*3. Luke McClelland, Coddle Creek Elementary

Honorable Mention

Britan Derting & Tilly Gentry, East Iredell Elementary

Christian Dean, Hawks Nest STEAM Academy

* Designates Advancement to State Fair
Elementary Chemistry

*1. Reva Khaire, Charles H. Parker Academic Center

*2. Archit Maid, Charles H. Parker Academic Center

*3. Keegan Bissell & Isabella Evans, Cool Spring Elementary
   Honorable Mention
   Nixon Sipe, Hawks Nest STEAM Academy
   Lavishka Doshi, Rea Farms Steam Academy

* Designates Advancement to State Fair
Elementary Earth/Environmental Science

*1. Ishan Sundaram, Charles H. Parker Academic Center

*2. Tyler Shafroth, Langtree Charter Academy

*3. Xane Chandler, Hawks Nest STEAM Academy

Honorable Mention

Evie Rinn, Woodland Heights Elementary
Reagan Lankford, Hawks Nest STEAM Academy

* Designates Advancement to State Fair
Elementary Engineering/Technology

*1. Pratyush Choudhary & Akshay Karthik, Endhaven Elementary

*2. Sumeet Eaga, Hickory Ridge Elementary

*3. Elizabeth Jin, Irwin Academic Center

Honorable Mention

Vance Gustafson, R. Brown McAllister Elementary
Hanna Sierra Sanchez, Langtree Charter Academy

* Designates Advancement to State Fair
Elementary
Physics & Math

*1. Darshini Selvakumar, Hickory Ridge Elementary
*2. Elijah McVey, Patriots Elementary
*3. Kavin Kumar, Coltrane Webb Elementary

Honorable Mention
Isha Shabari, Cox Mill Elementary
Molly Baaden, Beverly Hills Elementary
Maddox Jennings, Hawks Nest STEAM Academy

* Designates Advancement to State Fair
Junior

Biological Sciences A

*1. Benedict Imparato, St. Michael’s Catholic School

*2. Harini Balaji, JN Fries Magnet School

*3. Haashini Balasubramanian & Yashvi Kandyala, JN Fries Magnet

* Designates Advancement to State Fair
Junior

Biological Sciences B

*1. Aashvi Shah, Brawley Middle
*2. Blake Richardson, Brawley Middle
*3. Ananth Bhat, Weddington Middle

* Designates Advancement to State Fair
Junior Chemistry

*1. Niles Nelson, Sedgefield Middle

*2. Mia McHugh, Bailey Middle

*3. Nicholas Moore, Brawley Middle

* Designates Advancement to State Fair
Junior
Earth/Environmental Science

*1. Aadarsh Lakshmanan, Metrolina Regional Scholars
*2. Conger Chalfant, JN Fries Magnet
*3. Rutwa Patil, Metrolina Regional Scholars

* Designates Advancement to State Fair
Junior Engineering

*1. Mary Crawford, Lucas Mullis & Noah Waits, Oakboro Choice STEM

*2. Emma Hathcock & Ella McRae, JN Fries Magnet

*3. Dhiya and Dhanvi Manivasagam, Community House Middle

* Designates Advancement to State Fair
Junior Technology

*1. Noah Augustin, JN Fries Magnet

*2. Pranav Vinuprasath, JN Fries Magnet

* Designates Advancement to State Fair
Junior Physics

*1. Maria Siddiqui, Brawley Middle

*2. Arpan Patel, Community House Middle

*3. Pragathi Akula, JN Fries Magnet

* Designates Advancement to State Fair
Junior Math & Data Science

1. Ankit Biswas, Metrolina Regional Scholar Academy
2. Medha Bonda, Weddington Middle

* Designates Advancement to State Fair
Senior
Biological Sciences A

*1. Andre Gaddy, Gaston Early College of Medical Sciences

*2. Arvin Deshmukh & Sreethan Gajula
Marvin Ridge HS

* Designates Advancement to State Fair
Senior
Biological Sciences B

*1. Yunjia Quan, Charlotte Country Day
*2. Laira Lee, Marvin Ridge High
*3. Veda Dayananda, East Mecklenburg High

* Designates Advancement to State Fair
Senior Chemistry

*1. Radhika Unnikrishnan, Weddington High

*2. Zoe Doe & Kelly Smith, Stuart W. Cramer High

* Designates Advancement to State Fair
Senior
Earth/Environmental Science

*1. Reva Kumar, North Mecklenburg High

*2. Shitij Govil, Aidan Lee & Aiden McQueen, Marvin Ridge High

*3. Whitney Williams, Marvin Ridge High

* Designates Advancement to State Fair
Senior Engineering

*1. Narayani Garg, South Iredell High
*2. Gabriel Mintz, Marvin Ridge HS
*3. Aadi Kucheria, Shlok Pate & Kirtan Patel, Marvin Ridge HS

* Designates Advancement to State Fair
Senior Technology

*1. Dhairya Patel & Riya Patel, Marvin Ridge HS
*2. Isha Narang, Ardrey Kell HS
*3. Tanvi Sharma, Ardrey Kell HS

* Designates Advancement to State Fair
Senior Physics

1. Abrianna Risner

Gaston Early College of Medical Sciences

* Designates Advancement to State Fair
Senior

Math & Data Science

*1. Harshitha Jasti & Eesha Patel,
Ardrey Kell High School

*2. Martina Banas,
Ardrey Kell High School

*3. Arya Gupta,
Ardrey Kell High School

* Designates Advancement to State Fair
Broadcom Masters Nominations

Benedict Imparato
Maria Siddiqui
Niles Nelson
Mary Crawford, Lucas Mullis, Noah Waits
Noah Augustin

Nominees will receive be emailed information.
Hannah Mullis, East Gaston High School
Mason Sufnarski Marvin Ridge High School &
Josephine Barber
Thank you!
We hope to see you 2023!

Alisa Wickliff, Associate Director, Center for STEM Education, UNC Charlotte
Dr. David Pugalee, Director, Center for STEM Education, UNC Charlotte