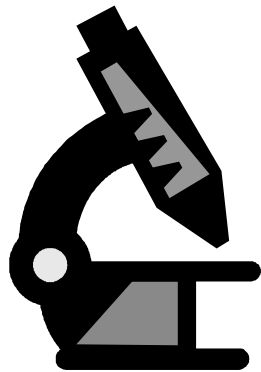


Northern Virginia Regional Science & Engineering Fair

Category Awards 2022



Holly Krull
Category Judge Chair

Dat Le
Fair Director

Michele Lombard
Assistant Fair Director

NORTHERN VIRGINIA REGIONAL SCIENCE & ENGINEERING FAIR

2022 CATEGORY AWARDS

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Project Number	Name	School
<i>1st Place</i>		
<u>Behavioral and Social Sciences</u>		
8 BE 202	Piper, Bailey; Power, Julia	Williamsburg
12 BE 206	Berry, Colin	Yorktown
<u>Biochemistry</u>		
9 BI 301	Bowen, Natalie	Alexandria City HS
<u>Chemistry</u>		
8 CH 410	Musa, Zara	Williamsburg
10 CH 414	Baasansukh, Haley	Washington-Liberty
10 CH 416	Cordero, Gabrielle	Washington-Liberty
10 CH 417	Silva, Leila	Yorktown
10 CH 421	Gerardi, Mara; Danaceau, Ellie	Washington-Liberty
<u>Engineering</u>		
8 EN 508	Gupta, Krish	Swanson
8 EN 510	Leighton, Declan	Williamsburg
10 EN 515	Savage, William; Shipley, Alexander	H-B Woodlawn
11 EN 517	Sartori, Colin	Yorktown
<u>Environmental and Earth Sciences</u>		
8 EV 603	Mantler, Zella	Swanson
10 EV 613	Shapiro, Harriet	Washington-Liberty
12 EV 621	Shiells, Katherine	Bishop O'Connell

Project Number	Name	School
<i>1st Place</i>		
<u>Mathematics and Computer Science</u>		
8 MC 704	Kambhampaty, Kedar	Williamsburg
<u>Medical and Health Sciences</u>		
8 ME 803	Lach-Hab, Nadia	Dorothy Hamm
9 ME 807	Shah, Jaya	Washington-Liberty
10 ME 809	Yan, Chloe	Episcopal
<u>Microbiology</u>		
7 MI 900	Piedrahita, Julie	Williamsburg
11 MI 911	Brodsky, Julia	H-B Woodlawn
<u>Physics and Astronomy</u>		
8 PH 1008	Graham, Breanne	Swanson
8 PH 1009	Monroy, Sebastian	Dorothy Hamm
8 PH 1011	Van Hoey, Josephine	Gunston
10 PH 1017	Watchman, Sam	Arlington Tech
11 PH 1018	Henshaw, Morgan	Yorktown
<u>Plant Sciences</u>		
7 PS 1100	Ayscue, Quincy	Kenmore
7 PS 1103	Zee, Rachel	Kenmore
8 PS 1106	Hwang, Kyungsup	Gunston
9 PS 1109	Maxwell, Daisy	Washington-Liberty

Project Number	Name	School
2nd Place		
<u>Animal Sciences</u>		
8 AS 102	Schons, Hannah	H-B Woodlawn
<u>Behavioral and Social Sciences</u>		
7 BE 200	Shelton, Amelia	H-B Woodlawn
10 BE 204	Christino, Ruth	Alexandria City HS
<u>Biochemistry</u>		
9 BI 300	Babic, Harlow	Alexandria City HS
10 BI 304	Cohen, Ella	Washington-Liberty
<u>Chemistry</u>		
7 CH 405	Zissman, Cooper	George Washington
8 CH 409	Lim, Leo	Swanson
9 CH 413	Patrick, Victoria	Alexandria City HS
10 CH 415	Bergmann, Carly	Washington-Liberty
<u>Engineering</u>		
8 EN 509	Hwang, Theodore	Gunston
11 EN 516	Sanchez, Raphael	Washington-Liberty

Project Number	Name	School
<i>2nd Place</i>		
<u>Environmental and Earth Sciences</u>		
7 EV 602	Jacob, Erin; Kammerman, Noa	Dorothy Hamm
8 EV 604	Menta, Arhan	Williamsburg
9 EV 609	Pickard, Elle	Washington-Liberty
11 EV 620	Felker, Kara	Washington-Liberty
<u>Mathematics and Computer Science</u>		
8 MC 702	Dick, Kellan	Dorothy Hamm
8 MC 705	Panza, Bethany	H-B Woodlawn
9 MC 708	Hosen, Anfal	Alexandria City HS
10 MC 711	Angel, Theodore	Wakefield
10 MC 713	Hazari, Vrishin	Washington-Liberty
<u>Medical and Health Sciences</u>		
7 ME 800	McKillop, Maria	H-B Woodlawn
11 ME 810	Rylander, Lauren	Washington-Liberty
<u>Microbiology</u>		
7 MI 901	Shoffner, Sophia	Swanson
7 MI 902	Yoo, Andrew	H-B Woodlawn
8 MI 903	South, Caroline	Dorothy Hamm
11 MI 912	Ermovick, Ryan	Yorktown
11 MI 913	Sharma, Ambica	Washington-Liberty

Project Number	Name	School
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2nd Place

Physics and Astronomy

7 PH 1000	Desai, Suhani	Williamsburg
10 PH 1016	Bartrum, Olivia	Wakefield

Plant Sciences

7 PS 1102	Lawler, Catherine	Williamsburg
7 PS 1104	Klancnik, Sara; Klancnik, Amelia	H-B Woodlawn
9 PS 1107	Hensch, Emma	Washington-Liberty
9 PS 1108	Hubbard, Leia	Alexandria City HS

Project Number	Name	School
3rd Place		
<u>Animal Sciences</u>		
7 AS 100	Dalton, Arthur	George Washington
8 AS 103	Wang, Sidney	H-B Woodlawn
10 AS 104	Delnegro, Ben	Alexandria City HS
<u>Behavioral and Social Sciences</u>		
7 BE 201	Watts, M; Penella, Luc	H-B Woodlawn
9 BE 203	Jones, Ingrid	Alexandria City HS
<u>Biochemistry</u>		
9 BI 303	Ortuno, Evelyn	Washington-Liberty
<u>Chemistry</u>		
7 CH 400	Archie, Adam	Kenmore
7 CH 403	Thorsen, Blake	Williamsburg
7 CH 404	Wielechowski, Teagan	Williamsburg
8 CH 406	Coppenbarger, Sarah	Kenmore
8 CH 411	Scally, Abbie	Dorothy Hamm
10 CH 419	Stewart, Samantha	Wakefield
10 CH 420	Stewart-Simmons, Daija	Wakefield

Project Number	Name	School
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3rd Place

Engineering

7 EN	501	Mohamed, Ryan	Jefferson
7 EN	503	Tarpley, Michael	H-B Woodlawn
7 EN	504	Ware, Charlotte	George Washington
8 EN	507	Gebregus, Dersabel	Jefferson-Houston
9 EN	512	Watkins, Genevieve	Alexandria City HS
10 EN	513	Altenburg, Abigail	Alexandria City HS

Environmental and Earth Sciences

7 EV	601	Wilson, Gabrielle	Kenmore
9 EV	610	Smoyer, Mika	Arlington Tech
10 EV	611	Kotakis, Anastasia	Washington-Liberty
10 EV	614	Stroud, Lanyi	Yorktown

Mathematics and Computer Science

7 MC	700	Ainspan, Isaac; Vasisht, Janak	H-B Woodlawn
8 MC	703	Jiminez, Patrick	Gunston
9 MC	706	Etse, Caleb	Alexandria City HS
9 MC	707	Gavri, Ethan	Alexandria City HS
9 MC	709	Matthews, Andrew	Alexandria City HS
9 MC	710	Thomason, Katherine	Alexandria City HS
10 MC	714	Ovando, Taylor	Wakefield

Project Number	Name	School
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3rd Place

Medical and Health Sciences

7 ME	801	Smith, Anise; Tavares-Bryant, Malia	H-B Woodlawn
9 ME	805	Carr, Mariel	Alexandria City HS
9 ME	806	Gossel, Kendall	Alexandria City HS

Microbiology

8 MI	905	Nimerala, Maddie; Hans, Addison	Williamsburg
9 MI	908	Mohanty, Anna	Washington-Liberty
9 MI	909	O'Toole, Gabriel	Yorktown
9 MI	910	Trucano, Anna	Washington-Liberty
12 MI	914	SanSeverino, Melissa	Yorktown

Physics and Astronomy

7 PH	1001	Rendak, Michael	Kenmore
8 PH	1005	Din, Kai	H-B Woodlawn
8 PH	1006	Gooden, Elisha	Dorothy Hamm
9 PH	1013	Cohen, Nate	Yorktown
9 PH	1015	Gordon, Shira	Alexandria City HS

Plant Sciences

7 PS	1101	Keane, Taogh	H-B Woodlawn
7 PS	1105	Motley, William; Mota-Clem, Caio	Jefferson
11 PS	1111	Wayman, Elizabeth	Yorktown

Project Number	Name	School
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Honorable Mention

Animal Sciences

8 AS	101	Dowler, Mina	H-B Woodlawn
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Behavioral and Social Sciences

10 BE	205	Imlay, Bennett	Alexandria City HS
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Chemistry

7 CH	402	Morales, Anthony	Kenmore
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8 CH	407	Islam, Adam	Kenmore
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8 CH	408	Jaldin Torrico, Eva	Jefferson
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9 CH	412	Freeman, Anna	Washington-Liberty
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10 CH	418	Sokolove, Charles	Alexandria City HS
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11 CH	422	Houhou, Kenza	Yorktown
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Engineering

7 EN	500	Borisov, Camila	Kenmore
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7 EN	502	Normington, Beckett	Jefferson
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7 EN	505	Yimer, Sabrina	Jefferson
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8 EN	506	Dawson, Zachariah	H-B Woodlawn
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8 EN	511	Snelbecker, Emily	Williamsburg
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10 EN	514	Soni, Nikhil	H-B Woodlawn
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Project Number	Name	School
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Honorable Mention

Environmental and Earth Sciences

7 EV	600	Burks, Thomas	George Washington
8 EV	605	Taddesse, Kaleb	Dorothy Hamm
8 EV	606	Weber, Ella; Aida, Mila; Barry-Lenger, Laura	George Washington
9 EV	607	Eberly, Lincoln	Washington-Liberty
9 EV	608	Jemaneh, Zechariah	Alexandria City HS
10 EV	612	Sanchez-Armass, Ana	Washington-Liberty
10 EV	615	Sullivan, Anne	Alexandria City HS
10 EV	616	Walker, Natalie	Washington-Liberty
10 EV	617	Holguin, Veronica; Baron, Bridget	Alexandria City HS
10 EV	618	Wallander, Sadie; Topchy, Alena	Washington-Liberty
11 EV	619	Dorsey, Jonathan	Yorktown

Mathematics and Computer Science

8 MC	701	Bastuscheck, Nathan	Dorothy Hamm
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Medical and Health Sciences

8 ME	802	Kunic, Taylor	H-B Woodlawn
8 ME	804	Lkhagvasuren, Jessica; Burton, Mallory	H-B Woodlawn
10 ME	808	Cura, Marina	Wakefield

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Microbiology</u>		
8 MI 904	Zurita, Lilian	Gunston
9 MI 907	Klein, Sasha	Washington-Liberty
<u>Physics and Astronomy</u>		
7 PH 1002	Routhouska, Nicklaus	Hammond
7 PH 1003	Clemence, Idris; Salo, Kai	George Washington
8 PH 1004	Cai, Emma	Swanson
8 PH 1007	Gowdy, Benjamin	H-B Woodlawn
8 PH 1010	Pericak, Ryan	H-B Woodlawn
9 PH 1012	Berlett, Andrew	Alexandria City HS
9 PH 1014	Dawit, Daniel	Alexandria City HS
<u>Plant Sciences</u>		
10 PS 1110	Keng, Amelia	Washington-Liberty

BROADCOM MASTERS NOMINEES 2022

PROJECT	NAME	SCHOOL
8 BE 202	Bailey Piper & Julia Power	Williamsburg
8 CH 410	Zara Musa	Williamsburg
8 EN 508	Krish Gupta	Swanson
8 EN 510	Declan Leighton	Williamsburg
8 EV 603	Zella Mantler	Swanson
8 MC 704	Kedar Kambhampaty	Williamsburg
8 ME 803	Nadia Lach-Hab	Dorothy Hamm
7 MI 900	Julie Piedrahita	Williamsburg
8 PH 1008	Breanne Graham	Swanson
8 PH 1009	Sebastian Monroy	Dorothy Hamm
8 PH 1011	Josephine Van Hoey	Gunston
7 PS 1100	Quincy Ayscue	Kenmore
7 PS 1003	Rachel Zee	Kenmore
8 PS 1106	Kyungsup Hwang	Gunston

RECOMMENDATIONS FOR VIRGINIA STATE SCIENCE & ENGINEERING FAIR 2022

PROJECT	NAME	SCHOOL
12 BE 206	Colin Berry	Yorktown
9 BI 301	Natalie Bowen	Alexandria City HS
10 CH 414	Haley Baasansukh	Washington-Liberty
10 CH 416	Gabrielle Cordero	Washington-Liberty
10 CH 417	Leila Silva	Yorktown
10 CH 421	Mara Gerardi & Ellie Danaceau	Washington-Liberty
10 EN 515	William Savage & Alexander Shipley	H-B Woodlawn
11 EN 517	Colin Sartori	Yorktown
10 EV 613	Harriet Shapiro	Washington-Liberty
12 EV 621	Katherine Shiells	Bishop O'Connell
9 ME 807	Jaya Shah	Washington-Liberty
10 ME 809	Chloe Yan	Episcopal
11 MI 911	Julia Brodsky	H-B Woodlawn
10 PH 1017	Sam Watchman	Arlington Tech
11 PH 1018	Morgan Henshaw	Yorktown
9 PS 1109	Daisy Maxwell	Washington-Liberty

BEST OF FAIR 2022

GRAND PRIZE AWARDEES

Julia Brodsky

H-B Woodlawn Secondary Program

Anti-biofilm Activity of Isolated Bacteriophages for the Treatment of Multidrug Resistant Pulmonary Infections

William Savage and Alexander Shipley

H-B Woodlawn Secondary Program

Using Computer Vision and Augmented Reality to Utilize Pupil Movement as an Alternative to Traditional Tactile Input Systems

Chloe Yan

Episcopal High School

Development of RNA Vaccines Targeting Alzheimer's Disease Using Single-Celled RNA Sequencing and Proteomic Analysis

ALTERNATE AWARDEE

Colin Berry

Yorktown High School

Bringing Truth into Fake News: The Diffusion of Fact-Checked Fake Stories on Twitter

MIDDLE SCHOOL BEST OF FAIR

Zella Mantler

Swanson Middle School

Testing Ventilation in Swanson Middle School During the Era of COVID-19