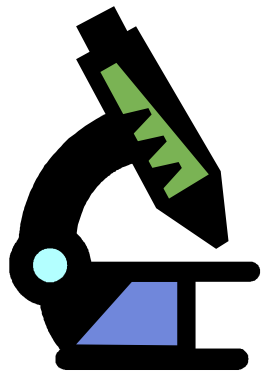


Northern Virginia Regional Virtual Science & Engineering Fair

Category Awards 2021



Holly Krull
Category Judge Chair

Dat Le
Fair Director

Michele Lombard
Assistant Fair Director

NORTHERN VIRGINIA REGIONAL SCIENCE & ENGINEERING FAIR

2021 CATEGORY AWARDS

First Place Awardees	1-2
Second Place Awardees.....	3-5
Third Place Awardees	6-8
Honorable Mention Awardees.....	9-10
Broadcom MASTERS Nominees	11-12
Virginia State Science Fair Nominees	13
Best of Fair Awardees	14

Project Number	Name	School
1st Place		
<u>Animal Sciences</u>		
9 AS 101	Berger, Cecilia	Washington-Liberty
<u>Behavioral and Social Sciences</u>		
11 BE 202	Berry, Colin	Yorktown
<u>Biochemistry</u>		
7 BI 301	Lau, Melissa	Gunston
11 BI 305	Zheng, Charles	Episcopal
<u>Chemistry</u>		
8 CH 403	Akay, Peter	Williamsburg
8 CH 404	Floom, Kate	Williamsburg
10 CH 411	Brodsky, Julia	H-B Woodlawn
10 CH 414	Wahl, Joanna	Wakefield
<u>Engineering</u>		
8 EN 503	Oberkirsch, Evan	Gunston
10 EN 510	Sartori, Colin	Yorktown
<u>Environmental and Earth Sciences</u>		
8 EV 606	Mohanty, Anna	Williamsburg
10 EV 618	Goeke, Madi	Washington-Liberty
12 EV 628	Licato, James	Washington-Liberty

Project Number	Name	School
-----------------------	-------------	---------------

1st Place

Mathematics and Computer Science

10 MC	705	Sharma, Ambica	Washington-Liberty
-------	-----	----------------	--------------------

Medical and Health Sciences

11 ME	816	Wang, Susan	Episcopal
-------	-----	-------------	-----------

12 ME	817	Lee, Junwoo	Episcopal
-------	-----	-------------	-----------

Physics and Astronomy

7 PH	1002	Hwang, Theodore; Hwang, Dorothy	Gunston
------	------	---------------------------------	---------

8 PH	1005	Thomas, Alexander	Swanson
------	------	-------------------	---------

9 PH	1008	Kaminski, Maya	Washington-Liberty
------	------	----------------	--------------------

9 PH	1011	Watchman, Sam	Arlington Tech
------	------	---------------	----------------

10 PH	1013	Bain, Angelica	Washington-Liberty
-------	------	----------------	--------------------

Plant Sciences

10 PS	1106	Huson, Teo	Washington-Liberty
-------	------	------------	--------------------

Project Number	Name	School
2nd Place		
<u>Animal Sciences</u>		
7 AS 100	Meyers, Isaac; Meyers, Jonathan	George Washington
9 AS 102	Dickerson, Rachel	Washington-Liberty
<u>Behavioral and Social Sciences</u>		
12 BE 203	Fugle, Sebastian	Yorktown
<u>Biochemistry</u>		
8 BI 303	Vogel, Henry	H-B Woodlawn
9 BI 304	Bartrum, Olivia	Wakefield
<u>Chemistry</u>		
7 CH 401	Menta, Arhan	Williamsburg
10 CH 413	Johnson, Phillip	Yorktown
<u>Engineering</u>		
7 EN 501	Reiss, Sam	George Washington
9 EN 505	Berhanu, Eyuel	Washington-Liberty
9 EN 507	Savage, William	H-B Woodlawn
10 EN 508	Henshaw, Morgan	Yorktown
10 EN 509	Sanchez, Raphael	Washington-Liberty
11 EN 511	Mukhtar, Suheila	Wakefield

Project Number	Name	School
<i>2nd Place</i>		
<u>Environmental and Earth Sciences</u>		
7 EV 602	Lach-Hab, Nadia	Dorothy Hamm
8 EV 605	Minnigh, Charlotte	Williamsburg
8 EV 608	Waldman, Amelia	Williamsburg
9 EV 611	Shapiro, Harriet	Washington-Liberty
9 EV 612	Sinha, Ananya	Arlington Tech
10 EV 617	Docena, Elise Francesca	Washington-Liberty
10 EV 622	Watson, Ivy	Washington-Liberty
11 EV 625	Ackleson, Thomas	Washington-Liberty
11 EV 627	Stievater, Adam	Washington-Liberty
<u>Mathematics and Computer Science</u>		
7 MC 700	Stievater, Henry	Swanson
10 MC 703	Beasley, Elise	Yorktown
10 MC 704	Haron, Rose	Washington-Liberty
<u>Medical and Health Sciences</u>		
11 ME 813	Schiavo, John	Arlington Tech
11 ME 814	Shiells, Katherine	Bishop O'Connell

Project Number	Name	School
-----------------------	-------------	---------------

2nd Place

Physics and Astronomy

7 PH 1000	Stidman, Sophia	Gunston
8 PH 1004	Shah, Sheel	Dorothy Hamm
8 PH 1006	Bass, Sonia; Bass, Ally	Swanson
9 PH 1007	Chung, Eric	Yorktown
9 PH 1010	Planey, Violet	T.C. Williams
10 PH 1014	Buckley, Ford	Yorktown
10 PH 1015	Ermovick, Ryan	Yorktown
11 PH 1016	Sheehy, Alexander	Yorktown

Plant Sciences

8 PS 1103	Shah, Jaya	Williamsburg
9 PS 1104	Guith, Kendall	Yorktown
9 PS 1105	Zouhon, Moya	Wakefield

Project Number	Name	School
-----------------------	-------------	---------------

3rd Place

Behavioral and Social Sciences

9 BE	200	Snell, Julia	H-B Woodlawn
10 BE	201	McAndrew, Rory; Doherty, Gillian	Washington-Liberty

Biochemistry

7 BI	300	Hardwick, Katie	Dorothy Hamm
7 BI	302	Piechowski, Esperanza	Dorothy Hamm

Chemistry

7 CH	402	Panza, Bethany	Kenmore
8 CH	405	Menn, Bella	Dorothy Hamm
8 CH	406	Tulchinsky, Ophelia	Dorothy Hamm
9 CH	407	Baasansukh, Haley	Washington-Liberty
9 CH	408	Bartrum, Sophia	Wakefield
9 CH	409	Finkelstein, Allie	Yorktown
10 CH	412	Carey, Julia	Yorktown

Engineering

7 EN	500	Name Withheld Upon Request	Williamsburg
8 EN	502	Connor, Hosanna	Kenmore
8 EN	504	Wearmouth, Isla	Kenmore

Project Number	Name	School
-----------------------	-------------	---------------

3rd Place

Environmental and Earth Sciences

7 EV	600	Chudiwale, Vedica	Dorothy Hamm
7 EV	601	Davis, Zoe	Williamsburg
8 EV	603	Connel, Helena	Williamsburg
8 EV	604	Hensch, Emma	Dorothy Hamm
8 EV	607	Tallis, Dylan	Jefferson
8 EV	609	Gaublomme, Peter; Nachnani, Anand	Dorothy Hamm
9 EV	610	Gerardi, Mara	Washington-Liberty
10 EV	619	Lansbury, Ava	Washington-Liberty
10 EV	623	Wayman, Elizabeth	Yorktown

Mathematics and Computer Science

8 MC	701	Klinger, Andrew	Swanson
9 MC	702	Silva, Leila	Yorktown
11 MC	706	Gordon, Max	T.C. Williams

Project Number	Name	School
-----------------------	-------------	---------------

3rd Place

Medical and Health Sciences

9 ME	803	Buchholz, Claire	Yorktown
10 ME	804	Aniss, Lina	Washington-Liberty
10 ME	805	Cunningham, Charlotte	Washington-Liberty
10 ME	806	Felker, Kara	Washington-Liberty
10 ME	807	Licato, Anne	Washington-Liberty
10 ME	808	Portner, Benjamin	Washington-Liberty
10 ME	809	Qadir, Sanah	Yorktown
11 ME	812	Nemirow, Devin	Washington-Liberty
11 ME	815	Tripathi, Anika	Washington-Liberty

Physics and Astronomy

7 PH	1001	Van Hoey, Josephine	Gunston
8 PH	1003	Merdad, Obai	Dorothy Hamm

Plant Sciences

7 PS	1100	Coppenbarger, Sarah	Kenmore
8 PS	1101	De la Cruz-Novey, Coral	Gunston
8 PS	1102	Lowe, Sydney	Kenmore
11 PS	1107	Whiting, Abigail	Washington-Liberty

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Animal Sciences</u>		
10 AS 103	Jones, Amelia	T.C. Williams
<u>Chemistry</u>		
7 CH 400	Chikh-Ali, Cherin	Dorothy Hamm
9 CH 410	Rosas, Monica	Yorktown
<u>Engineering</u>		
9 EN 506	Brooke, Phillip	Yorktown
<u>Environmental and Earth Sciences</u>		
9 EV 613	Stroud, Lanyi	Yorktown
9 EV 614	Boerckel, Kathryn; Grove, Allison	Washington-Liberty
10 EV 615	Carlson, Isla	Wakefield
10 EV 616	Coe, Elizabeth	Wakefield
10 EV 620	MacMullen, Maggie	Washington-Liberty
10 EV 621	Sherlick, Maya	Arlington Tech
10 EV 624	Estevao, Rebecca; Gordon, Alexandra	Washington-Liberty
11 EV 626	Quinn, Sam	Yorktown

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Medical and Health Sciences</u>		
9 ME 800	Abera, Elida	Wakefield
9 ME 801	Ahmed, Sabrin	Washington-Liberty
9 ME 802	Ben Hammouda, Malek	Washington-Liberty
11 ME 810	La Piana, Caroline	Washington-Liberty
11 ME 811	Marco, Emma	Yorktown
<u>Physics and Astronomy</u>		
9 PH 1009	Kappler, Rachel	H-B Woodlawn
10 PH 1012	Ashfaq, Zainab	T.C. Williams
<u>Plant Sciences</u>		
11 PS 1108	Williams, Fiona	Washington-Liberty

2021 BROADCOM MASTERS NOMINEES

PROJECT	NAME	SCHOOL
7 AS 100	Isaac Meyers & Jonathan Meyers	George Washington
7 BI 301	Melissa Lau	Gunston
8 BI 303	Henry Vogel	H-B Woodlawn
7 CH 401	Arhan Menta	Williamsburg
8 CH 403	Peter Akay	Williamsburg
8 CH 404	Kate Floom	Williamsburg
7 EN 501	Sam Reiss	George Washington
8 EN 503	Evan Oberkirsch	Gunston
7 EV 602	Nadia Lach-Hab	Dorothy Hamm
8 EV 605	Charlotte Minnigh	Williamsburg
8 EV 606	Anna Mohanty	Williamsburg
8 EV 608	Amelia Waldman	Williamsburg
7 MC 700	Henry Stievater	Swanson
7 PH 1002	Theodore Hwang & Dorothy Hwang	Gunston

**2021 BROADCOM MASTERS
NOMINEES (con't)**

PROJECT	NAME	SCHOOL
8 PH 1005	Alexander Thomas	Swanson
8 PH 1006	Sonia Bass & Ally Bass	Swanson
8 PS 1103	Jaya Shah	Williamsburg

RECOMMENDATIONS FOR VIRGINIA STATE SCIENCE & ENGINEERING FAIR 2021

PROJECT	NAME	SCHOOL
9 AS 101	Cecilia Berger	Washington-Liberty
11 BE 202	Colin Berry	Yorktown
11 BI 305	Charles Zheng	Episcopal
10 CH 411	Julia Brodsky	H-B Woodlawn
10 CH 414	Joanna Wahl	Wakefield
10 EN 510	Colin Sartori	Yorktown
10 EV 618	Madi Goeke	Washington-Liberty
12 EV 628	James Licato	Washington-Liberty
10 MC 705	Ambica Sharma	Washington-Liberty
11 ME 816	Susan Wang	Episcopal
11 ME 817	Junwoo Lee	Episcopal
9 PH 1008	Maya Kaminski	Washington-Liberty
9 PH 1011	Sam Watchman	Arlington Tech
10 PH 1013	Angelica Bain	Washington-Liberty
10 PS 1006	Teo Huson	Washington-Liberty

BEST OF FAIR 2021

GRAND PRIZE AWARDEES

James Licato
Washington-Liberty High School

Development of a Zeolite Composite Material for the Simultaneous Removal of Pharmaceuticals, Personal Care Products (PPCPs), and Perfluorinated Alkyl Substances (PFAS) in Water Treatment

and

Susan Wang
Episcopal High School

Single-cell RNA Sequencing Analysis of Human Neural Grafts Revealed Unexpected Cell Type Underlying the Genetic Risk of Parkinson's Disease

ALTERNATE AWARDEE

Charles Zheng
Episcopal High School

Genomic Biomarker Discovery in Lung Cancer