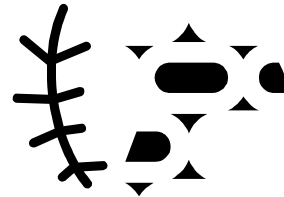
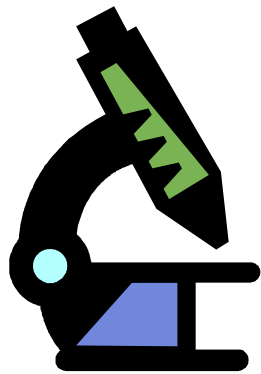


# Northern Virginia Regional Science & Engineering Fair

## Category Awards 2020



Holly Krull  
Category Judge Coordinator

Dat Le  
Fair Director

Michele Lombard  
Assistant Fair Director

# NORTHERN VIRGINIA REGIONAL SCIENCE & ENGINEERING FAIR

## 2020 3rd PLACE AWARDS

First Place Awardees ..... 1-2

Second Place Awardees..... 3-6

Third Place Awardees .....7-9

Honorable Mention Awardees.....10-15

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

***1st Place***

**Behavioral and Social Sciences**

11 BE 218	McCormack, Michaela	T.C. Williams
-----------	---------------------	---------------

12 BE 219	Loftis, Kate	Yorktown
-----------	--------------	----------

**Biochemistry**

11 BI 310	von Eckartsberg, Rose	Yorktown
-----------	-----------------------	----------

**Chemistry**

9 CH 417	Licato, Anne	Washington-Liberty
----------	--------------	--------------------

**Engineering**

9 EN 517	Sartori, Colin	Yorktown
----------	----------------	----------

**Environmental and Earth Sciences**

9 EV 627	Goeke, Madi	Washington-Liberty
----------	-------------	--------------------

9 EV 632	Carlson, Isla; Vaughan, Kathleen	Wakefield
----------	----------------------------------	-----------

11 EV 647	Licato, James	Washington-Liberty
-----------	---------------	--------------------

**Mathematics and Computer Science**

10 MC \		
---------	--	--

916	Tripathi, Anika	Washington-Liberty
-----	-----------------	--------------------

11 MI 918	McDonald, Alexandra	Yorktown
-----------	---------------------	----------

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

---

***1st Place***

---

**Physics and Astronomy**

9 PH 1014	Bain, Angelica	Washington-Liberty
-----------	----------------	--------------------

11 PH 1021	Bass, Dillon	Yorktown
------------	--------------	----------

**Plant Sciences**

12 PS 1129	Amponsah, Keirstyn	T.C. Williams
------------	--------------------	---------------

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

***2nd Place***

**Animal Sciences**

9 AS	105	Beasley, Elise	Yorktown
9 AS	106	Day, Madeleine	Washington-Liberty
9 AS	107	Henshaw, Morgan	Yorktown

**Behavioral and Social Sciences**

9 BE	210	Carey, Julia	Yorktown
10 BE	214	Kerns, Michael; Westergren, Evan	Arlington Tech
10 BE	215	Nix, Ellie; Daget, Stephanie; Muir, Maddie	Arlington Tech

10

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

**2nd Place**

**Chemistry**

9CH 416	Koller, Sean	Washington-Liberty
9CH 418	Wayman, Elizabeth	Yorktown
10CH 419	Ardaiz, Alexander	Wakefield
10CH 427	Rahman, Md Nabil; Fuqua, Stewart; Merritt, Songkran	Wakefield
11CH 428	Bell, Sydney	T.C. Williams
11CH 429	Stutzman, George	Washington-Liberty

**Engineering**

9EN 518	Sharma, Ambica	Washington-Liberty
9EN 519	McCormack, Maxwell; Winters, Rutger	T.C. Williams
9EN 520	Sanchez, Raphael; Brown, Liam	Arlington Tech
11EN 523	Mukhtar, Zeinab	Wakefield



<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

---

***2nd Place***

---

**Microbiology**

9 MI	907	Chahil, Natalia
------	-----	-----------------



---

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

---

***3rd Place***

---

**Behavioral and Social Sciences**

9 BE	212	Rahman, Nabela	Wakefield
9 BE	213	Ramirez Graves, Mercedes; Demarco, Kaya; Sparks, Adriana	Arlington Tech

**Biochemistry**

9 BI	303	Docena, Elise	Washington-Liberty
9 BI	304	Milton, Emily	T.C. Williams

**Chemistry**

10 CH	420	Bright, Christopher	T.C. Williams
10 CH	421	Galazin, Catherine	Wakefield
10 CH	423	Clark, Zoe; Sweeney, Nolan	Wakefield

**Engineering**

9 EN	515	Ipsen, Evelyn	T.C. Williams
10 EN	521	Hixson, William	T.C. Williams
10 EN	522	Lakew, Yoseph	T.C. Williams
11 EN	524	Stearns, Oliver	H-B Woodlawn

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

---

***3rd Place***

---

**Environmental and Earth Sciences**

9 EV 622	Allen, Lily	Washington-Liberty
----------	-------------	--------------------

9



<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

---

***Honorable Mention***

---

**Behavioral and Social Sciences**

9BE	211	Fanning, Lily	T.C. Williams
-----	-----	---------------	---------------

**Biochemistry**

9BI	302	Arlett Estrada, Sara	Arlington Tech
-----	-----	----------------------	----------------

10BI	308	Arango-Rojas, Sara; Leahy, Meaghan; McCarthy, Maya	
------	-----	---	--

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

***Honorable Mention***

**Environmental and Earth Sciences**

9 EV	623	Bolejack, Anna	Washington-Liberty
9 EV	628	Klug, Aaron	Wakefield
9 EV	629	Krajicek, Caroline	Washington-Liberty
9 EV	630	Leland, Erin	Washington-Liberty
9 EV	634	Middleton, Sarah; Hay, Elizabeth; Watkins, Evelyn	Wakefield
10 EV	638	Futrell, Sophia	Yorktown
10 EV	639	Houck, Summerson	T.C. Williams
10 EV	645	Taylor, Mason	Wakefield

**Mathematics and Computer Science**

12 MC	705	Foster, Alisha	Yorktown
-------	-----	----------------	----------

**Medical and Health Sciences**

9 ME	808	Dechant, Sophie; Dawson, Anibel	T.C. Williams
------	-----	---------------------------------	---------------

**Microbiology**

9 MI	906	Carlson, Margaret	T.C. Williams
9 MI	910		

<b>Project Number</b>	<b>Name</b>	<b>School</b>
-----------------------	-------------	---------------

***Honorable Mention***

**Plant Sciences**

9 PS 1119	Huson, Teo	Washington-Liberty
10 PS 1122	Dramstad, Brent	Wakefield
10 PS 1124	Coggins, Kathryn; Carlson, Rhys	Wakefield
11 PS 1126	Alavi, Zahra	Wakefield







# RECOMMENDATIONS FOR VIRGINIA STATE SCIENCE & ENGINEERING FAIR 2020

<b>PROJECT</b>	<b>NAME</b>	<b>SCHOOL</b>
<b>11 BE 218</b>	<b>Michaela McCormack</b>	<b>T.C. Williams</b>
<b>12 BE 219</b>	<b>Kate Loftis</b>	<b>Yorktown</b>
<b>11 BI 310</b>	<b>Rose von Eckartsberg</b>	<b>Yorktown</b>
<b>9 CH 417</b>	<b>Anne Licato</b>	<b>Washington-Liberty</b>
<b>9 EN 517</b>	<b>Colin Sartori</b>	<b>Yorktown</b>
<b>9 EV 627</b>	<b>Madi Goeke</b>	<b>Washington-Liberty</b>
<b>9 EV 632</b>	<b>Isla Carlson &amp; Kathleen Vaughan</b>	<b>Wakefield</b>
<b>11 EV 647</b>	<b>James Licato</b>	<b>Washington-Liberty</b>

**10 MC 701**

# **BEST OF FAIR 2020**

## **GRAND PRIZE AWARDEES**

Jake Lee  
Episcopal High School

*Development of Artificial Epidermis Using Collagen Film  
and Keratinocyte Cell Line for Personalized Allergy Tester*

**and**

Alexandra McDonald  
Yorktown High School

*Optimization of Microbial Fuel Cell Technology to Maximize  
Power and Nitrate Removal*

## **ALTERNATE AWARDEE**

James Licato  
Washington-Liberty High School

*Developing a Method for Simultaneous Removal of  
Pharmaceuticals and PFAS in Water Treatment*