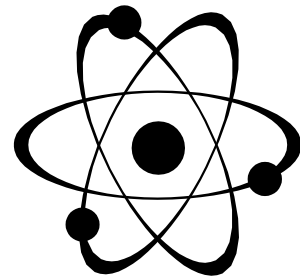


Northern Virginia Regional Science & Engineering Fair

Category Awards 2016



Marti Otto & Harry Winsor
Category Judge Coordinators

Dat Le
Fair Director

Matt Hubbard
Assistant Fair Director

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Project Number	Name	School
1st Place		
<u>Behavioral and Social Sciences</u>		
7 BE 102	Islam, Akila	H-B Woodlawn
8 BE 108	de Boor, Malva	Gunston
9 BE 120	Sinha, Karuna	Washington-Lee
9 BE 124	O'Brien, Samantha; Hans, Madeline	Yorktown
11 BE 129	Meany, Julianne	H-B Woodlawn
11 BE 131	Kelafant, Elizabeth; Kyaw, Khin	Yorktown
<u>Biochemistry</u>		
7 BI 200	Casper, Kate	George Washington
9 BI 202	Diamantopoulos, Kalista	T.C. Williams
11 BI 205	Chongsaritsinsuk, Joann	Wakefield
<u>Botany</u>		
8 BO 309	Boerckel, Madeleine	Kenmore
8 BO 312	Comenetz, Benjamin	Mary Ellen Henderson

Project Number	Name	School
1st Place		
<u>Chemistry</u>		
7 CH 401	Beauvais, Anais	Gunston
7 CH 411	Harrison, Kira; Barnett, Ava	Swanson
8 CH 414	Atkin, Sabrina	Williamsburg
9 CH 436	Hughes, Madeleine	Yorktown
9 CH 438	Pond, Lily	H-B Woodlawn
10 CH 442	Joskow, Rebecca	Yorktown
<u>Computer Science</u>		
9 CS 503	Humphrey, Ana	T.C. Williams
12 CS 508	Samuel, Daggem	T.C. Williams
<u>Earth and Space Sciences</u>		
8 EA 602	Maly, Evan	Jefferson
<u>Engineering</u>		
8 EN 707	Fried, Ellie	H-B Woodlawn
8 EN 711	Phelps, Addison	Williamsburg
8 EN 712	Stocks, Allison	Williamsburg
9 EN 716	Gross, Benjamin	H-B Woodlawn
10 EN 720	Dudka, Cory	Washington-Lee
12 EN 727	O'Briant, Megan	Yorktown

Project Number	Name	School
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1st Place

Environmental Science

7 EV	801	Humphrey, Mia	George Washington
7 EV	803	Licato, James	Swanson
8 EV	810	Ambellu, Galilee	Williamsburg
8 EV	812	Lyons, Maria	George Washington
9 EV	820	Kohan, Amy	Wakefield
9 EV	823	Price, Emmarose	Washington-Lee
10 EV	827	Brodowski, Skylar	Washington-Lee
11 EV	835	Battogtokh, Bilguunzaya	Yorktown
12 EV	838	Wisdom, Esther	George Mason

Mathematics

8 MA	901	Graf, Victoria	Williamsburg
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Medicine and Health

7 ME	1011	Lambert, Sarah	Mary Ellen Henderson
8 ME	1001	Lebovitz, Audric	Mary Ellen Henderson
9 ME	1002	Apsel, Zoe	Yorktown
9 ME	1008	Zetkulic, Annie	Washington-Lee
12 ME	1010	Golemon-Mercer, Sarah	T.C. Williams

Project Number	Name	School
<i>1st Place</i>		
<u>Microbiology</u>		
9 MI 1113	Love, Kathleen	Yorktown
11 MI 1118	Halford, Grace	Bishop O'Connell
<u>Physics</u>		
7 PH 1202	Kumashiro, Anne	Gunston
8 PH 1207	Alves, Henry	Kenmore
8 PH 1209	Gaoat, Andrea	Kenmore
8 PH 1213	Jones, Kelly	George Washington
8 PH 1216	Mitchell, Kaiya	Jefferson
8 PH 1219	Cocke, Townson; Cocke, Emmett	George Washington
9 PH 1227	Williams, Kelton	Washington-Lee
10 PH 1229	Fogelson, Alexander	Yorktown
11 PH 1236	Moore, Emma Sophie	Yorktown
<u>Zoology</u>		
8 ZO 1301	Horovitz, Rebecca; Rosenberger, Julia	Mary Ellen Henderson
10 ZO 1303	Harris, Fiona	H-B Woodlawn

Project Number	Name	School
<i>2nd Place</i>		
<u>Behavioral and Social Sciences</u>		
7 BE 101	Gibbon, Georgia	H-B Woodlawn
8 BE 107	Day, David	Williamsburg
8 BE 110	Stanley, Ethan	Jefferson
8 BE 112	Plaks, Connor; Hellert, Cole	Mary Ellen Henderson
9 BE 114	Gormley, Angela	Yorktown
9 BE 123	Elby, Maya; Jones-Vincent, Mikayla	Washington-Lee
10 BE 125	Adams, Christopher	Washington-Lee
10 BE 126	Dodds, Kathleen	Washington-Lee
<u>Biochemistry</u>		
8 BI 201	Alleyne, Kristen	Gunston
9 BI 203	Gerardi, Samuel	Washington-Lee
9 BI 204	Sanchez, Deion	T.C. Williams

Project Number	Name	School
<i>2nd Place</i>		
<u>Botany</u>		
7 BO 301	Mills, Chloe	Mary Ellen Henderson
7 BO 302	Phi, Trung	Williamsburg
7 BO 304	Grund, Siri; Cipriano, Emilia	Mary Ellen Henderson
8 BO 308	Bablu, Bushra	Swanson
8 BO 310	Budragchaa, Khongor	Gunston
8 BO 314	Lewis, Bryce	Kenmore
9 BO 319	Davis, Matthew	Yorktown
9 BO 320	Hahn, Miles	Washington-Lee

Project Number	Name	School
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2nd Place

Chemistry

7 CH 402	Hill, Anna	George Washington
7 CH 407	Sperry, Matthew	Mary Ellen Henderson
7 CH 409	Tijerina, Zoe	Swanson
7 CH 410	Alteneder, Robyn; Smith, Sadie	Swanson
8 CH 413	Anderson, Caitlin	Swanson
8 CH 422	Fried, Katherine	Jefferson
8 CH 433	Kirchenbauer, Robert; Kirchenbauer, David	Swanson
9 CH 435	Elman, Julia	Washington-Lee
9 CH 437	Milone, Charlotte	T.C. Williams
9 CH 440	White, Aidan	T.C. Williams
10 CH 445	Turcios, Kevin	T.C. Williams
11 CH 447	Al Mudaris, Hasan	T.C. Williams
11 CH 448	Ghosh, Soukarya	Yorktown

Computer Science

7 CS 500	Dunham, Jack	H-B Woodlawn
9 CS 504	Meredith, Kate	H-B Woodlawn
9 CS 506	Lustig, Matthew; Leary, Brendan	T.C. Williams
10 CS 507	Mark, Ryan	Yorktown

Project Number	Name	School
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2nd Place

Earth and Space Sciences

7 EA	600	Gibbs, Alexandra	Hammond
8 EA	601	Ashley, Julia	Williamsburg

Engineering

7 EN	701	Evans, John	Williamsburg
7 EN	703	Kaplowitz, Eli	H-B Woodlawn
8 EN	705	Berry, Ryan	Williamsburg
8 EN	709	Martin, Antonio	Kenmore
8 EN	728	Sonn, Julia; Joyner, Charlotte	Gunston
9 EN	719	Teter, Casey	H-B Woodlawn
10 EN	721	Kambhampaty, Jayaprakash	Washington-Lee

Project Number	Name	School
<i>2nd Place</i>		
<u>Environmental Science</u>		
7 EV 802	Lankford, Evan	Mary Ellen Henderson
7 EV 807	Silva, Noah	Williamsburg
7 EV 809	Stevens, Katherine	Mary Ellen Henderson
8 EV 813	Myers, Amelia	H-B Woodlawn
8 EV 817	Wrenn-Walz, Aidan	Swanson
9 EV 824	Arnade, Eva; Jacques, Juliette	Washington-Lee
9 EV 825	Byers, Jessica; Siegal, Christine	Washington-Lee
9 EV 826	Glasser, Zoe; Glasser, Jake	T.C. Williams
10 EV 830	Cooper, Sachi	Washington-Lee
10 EV 833	Schaefer, Rebecca	Washington-Lee
10 EV 834	Forrest, Katerina; Tucci, Ariaiah	Washington-Lee
11 EV 836	Hart, Bridget	Yorktown
<u>Mathematics</u>		
8 MA 900	Cunningham, Caroline	Swanson
8 MA 902	Hunt, Angelina Aubrey	George Washington
8 MA 903	Snowden, Libby	Kenmore
10 MA 905	Buehlmann, Grace	Yorktown

Project Number	Name	School
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2nd Place

Medicine and Health

7 ME 1000	Donmoyer, Avery	Williamsburg
9 ME 1005	Murphy, Sarah	Yorktown
9 ME 1006	Samimi, Neeka	Washington-Lee
11 ME 1009	Tibebe, Biruktawit	Washington-Lee

Microbiology

7 MI 1103	Sharrer, Nicholas	Mary Ellen Henderson
9 MI 1114	Russell-Hunter, Sarah	Washington-Lee
10 MI 1116	McCord-Snook, Colette	Washington-Lee
10 MI 1117	Martin, Amelia; Martin, Iris	Washington-Lee

Project Number	Name	School
<i>2nd Place</i>		
<u>Physics</u>		
7 PH 1201	Economos, Nikolas	Williamsburg
7 PH 1205	Rapazzo, Laura	Jefferson
7 PH 1206	Sasaki, Jack	Kenmore
8 PH 1214	Lazorchak, Graham	Swanson
8 PH 1215	McGilvray, Alexander	Jefferson
8 PH 1220	Cummins-Smith, Cameron; Praed, Jackson	Swanson
8 PH 1222	Tucker, Lily; Conkey, Grace	George Washington
9 PH 1225	Salmons, Grace	T.C. Williams
10 PH 1230	Olson, An-Ya	Washington-Lee
11 PH 1234	Karton, Jake	Wakefield
11 PH 1235	Mellon, Jessica	T.C. Williams
11 PH 1239	Wilson, Pablo; Wierzbanowski, Cali	Washington-Lee
<u>Zoology</u>		
9 ZO 1302	Boyd, Mina; Rust, Sophie	T.C. Williams
11 ZO 1304	Paletzki, Erik; Block, Cassia	Washington-Lee

Project Number	Name	School
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3rd Place

Behavioral and Social Sciences

7 BE	104	Price, Elizabeth	Williamsburg
9 BE	117	Mallan, Paloma	H-B Woodlawn
10 BE	127	Erskine, Pamela	Washington-Lee
10 BE	128	McHugh, Nicola	Washington-Lee
11 BE	130	Salsburg, Patrick	Yorktown

Project Number	Name	School
<i>3rd Place</i>		
<u>Botany</u>		
7 BO 300	McCalmont, Samantha	Hammond
7 BO 303	Pittard, Claire	H-B Woodlawn
7 BO 305	Metzler, Isabel; Chader, Ava	George Washington
7 BO 306	Watson, Lillian; Hernandez, Leia	Kenmore
7 BO 307	Wilmot, Taylor; Allan, Natalie	George Washington
8 BO 311	Calkins, Sophia	Swanson
8 BO 313	Levy, Isaiah	Kenmore
8 BO 315	Prasad, Berenika	H-B Woodlawn
8 BO 316	Sughrue, Caitlin	Gunston
8 BO 317	Yeatman, Reese	Mary Ellen Henderson
8 BO 318	Anderson, Aida; Srinivasan, Maya	Gunston
10 BO 321	Pearson, Alex	Wakefield
10 BO 322	Settles, Mackena; Peckman, Kate	T.C. Williams

Project Number	Name	School
3rd Place		
<u>Chemistry</u>		
7 CH 400	Barua, Shushantika	Kenmore
7 CH 404	McBride, Alana	Kenmore
7 CH 406	Schimpp, Isabel	Kenmore
7 CH 408	Stansel, Katherine	Williamsburg
7 CH 412	McFall, Abigail; Meade, Constance	Mary Ellen Henderson
8 CH 416	Beckstrom, Peter	Kenmore
8 CH 417	Butler-Christodoulou, Athena	Gunston
8 CH 418	Cathirell, Samara	H-B Woodlawn
8 CH 426	Smith, Audrey	H-B Woodlawn
8 CH 429	Watkins, Jaiden	Kenmore
10 CH 444	Shamsuddin, Syeda	Wakefield
10 CH 446	Kappel, Leah; Calvo, Catherine	Yorktown
<u>Computer Science</u>		
8 CS 502	Wheeler, Paige	Gunston
9 CS 505	Tyler, Alexander	Yorktown

Project Number	Name	School
3rd Place		
<u>Engineering</u>		
7 EN 700	Brown, John	Mary Ellen Henderson
7 EN 704	Youkeles, Samuel; O'Brien, Michael	Swanson
8 EN 706	Doyle, Ethan	H-B Woodlawn
8 EN 708	Gay, Robert	Williamsburg
9 EN 715	Cromley, Magdalene	T.C. Williams
12 EN 726	Magallon, Natasha	T.C. Williams
<u>Environmental Science</u>		
7 EV 800	Hendrey, Lillian	Williamsburg
7 EV 806	Rigby, Anna	George Washington
7 EV 808	Stearns, Oliver	H-B Woodlawn
9 EV 819	Anzaldi, Luke	Washington-Lee
9 EV 821	McGuire, Thomas	H-B Woodlawn
9 EV 822	Million, Grace	T.C. Williams
10 EV 829	Brooks, Emily	Yorktown
11 EV 837	Kilmer, Scott	Yorktown
<u>Mathematics</u>		
8 MA 904	Stanley, Tucker	Jefferson
10 MA 906	Magnus, Hero	T.C. Williams

Project Number	Name	School
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3rd Place

Medicine and Health

9 ME 1003	Felipe, Anne	Wakefield
9 ME 1004	Girod, Ashley	Yorktown
9 ME 1007	Shuster, Sabrina	Washington-Lee

Microbiology

7 MI 1101	Hatcher, Courtney	H-B Woodlawn
8 MI 1108	Reppert, Margaux	Gunston
9 MI 1111	Calfee, Lincoln	Wakefield

Project Number	Name	School
3rd Place		
<u>Physics</u>		
7 PH 1200	Donovan, Katherine	Mary Ellen Henderson
7 PH 1203	Murray, Andrew	Swanson
7 PH 1204	Nguyen, Lucy	Jefferson
8 PH 1208	Do, Darren	Kenmore
8 PH 1210	Hays, Martha	Jefferson
8 PH 1211	Hemmings, Ethan	Jefferson
8 PH 1212	Hildebrand, Chase	Jefferson
8 PH 1217	Prasanth, Devika	George Washington
8 PH 1218	Stein, Liana	Jefferson
8 PH 1221	Nichols, Eva; Harpel, Anna	Gunston
9 PH 1223	Cabral, Kevin	Yorktown
9 PH 1224	Lane, John	H-B Woodlawn
9 PH 1226	Singh, Arshdeep	Yorktown
10 PH 1228	Doherty, Tomas	Wakefield
10 PH 1231	Sughrue, Connor	Wakefield
10 PH 1232	Baron, David; Harris, Jared	Wakefield
11 PH 1233	Cleaveland, Rachel	Yorktown
11 PH 1237	Pepin-Woods, Richard	Yorktown

Project Number	Name	School
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3rd Place

11 PH 1238	Ortez-Sorto, Karla; Serrano, Jahel	Wakefield
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Zoology

8 ZO 1300	Meyer, Bree	Swanson
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Project Number	Name	School
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Honorable Mention

Behavioral and Social Sciences

7 BE	100	Chenoweth, Lydia	Williamsburg
7 BE	103	McDonnell, Marissa	Jefferson
7 BE	105	Soto, Evelyn	H-B Woodlawn
8 BE	109	McCracken, Joseph	Hammond
8 BE	111	Collins-Joseph, Kiera; Lordos, Olivia	Gunston
9 BE	116	Johnson, Anelise	Yorktown
9 BE	119	Peterson, Peter	T.C. Williams
9 BE	121	Som, Julia	Yorktown
9 BE	122	Tyler, Ellie	Yorktown
12 BE	132	Mohyuddin, Iqra	T.C. Williams

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Chemistry</u>		
7 CH 403	Lee, Stella	Kenmore
7 CH 405	Meek, Melena	Jefferson
8 CH 415	Ausink, Kalkidan	Jefferson
8 CH 419	Clarkson, Emma	Jefferson
8 CH 420	Coker, Jason	Hammond
8 CH 421	Erwin, Henry	Swanson
8 CH 423	Klapper, Dakota	Jefferson
8 CH 424	Lis, Katherine	Kenmore
8 CH 425	Poellnitz, Will	H-B Woodlawn
8 CH 427	Ursitti, Jianna	Kenmore
8 CH 430	Williams, Claire	Swanson
8 CH 431	Wilson, Adalie	Jefferson
8 CH 432	Wynkoop, Jessica	Kenmore
8 CH 434	Volk, Natasa; Harris, Chelsie; Hott, Sophie	Gunston
8 CH 449	Choudhary, Shreya	Jefferson
10 CH 441	Batbayar, Indra	Yorktown
10 CH 443	Schneider, Caroline	T.C. Williams

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Engineering</u>		
8 EN 710	Miller, John	Swanson
8 EN 713	Angelov, Rado; Whichard, George	Gunston
8 EN 714	Carpio, David; Walker, Evan	Gunston
9 EN 717	Riordan, Conor	H-B Woodlawn
9 EN 718	Smith, Devin	H-B Woodlawn
10 EN 722	Preisser, Reece	Yorktown
11 EN 723	Brennan, Henning	Yorktown
11 EN 724	Dristas, Matteo	Yorktown
11 EN 725	Gynn, Addison	T.C. Williams
<u>Environmental Science</u>		
7 EV 804	Mendelsohn, Alexandra	Williamsburg
7 EV 805	Olson, Lucinda	H-B Woodlawn
8 EV 814	Rochard, Steven	Jefferson
8 EV 815	Santos, Halina	Williamsburg
8 EV 816	Usubyan, Kirill	Swanson
8 EV 818	Codispoti, Lucas; Regalia, Camilla	Gunston
10 EV 828	Broman, Russell	T.C. Williams
10 EV 832	LaGrassa, Vince	Washington-Lee

Project Number	Name	School
<i>Honorable Mention</i>		
<u>Microbiology</u>		
7 MI 1100	Grasmeder, Ella	H-B Woodlawn
7 MI 1102	Moreno, Natalie	Swanson
7 MI 1104	Joven, Julianne; Teclé, Ariam	George Washington
7 MI 1105	Miller, Brianna; Gonzalez, Litzzy	Hammond
7 MI 1106	Stowers, Kareena; Gilman, Eliana	Gunston
8 MI 1107	Cain, Lauren	Gunston
8 MI 1109	Wilson, Nicholas; Dertke, Jake; Hatstrup, Matthew	Gunston
9 MI 1110	Beard, Kenneth	Wakefield
9 MI 1112	Goco, Colman	H-B Woodlawn

2016 BROADCOM MASTERS NOMINEES

PROJECT	NAME	SCHOOL
8 BE 108	Malva de Boor	Gunston
7 BI 200	Kate Casper	George Washington
8 BO 309	Madeleine Boerckel	Kenmore
8 BO 312	Benjamin Comenetz	Mary Ellen Henderson
7 CH 401	Anais Beauvais	Gunston
7 CH 411	Kira Harrison & Ava Barnett	Swanson
8 CH 414	Sabrina Atkin	Williamsburg
8 EA 602	Evan Maly	Jefferson
8 EN 707	Ellie Fried	H-B Woodlawn
8 EN 711	Addison Phelps	Williamsburg
7 EV 801	Mia Humphrey	George Washington
8 EV 810	Galilee Ambellu	Williamsburg
8 EV 812	Maria Lyons	George Washington
8 MA 901	Victoria Graf	Williamsburg
7 ME 1011	Sarah Lambert	Mary Ellen Henderson
7 PH 1202	Anne Kumashiro	Gunston

**2016 BROADCOM MASTERS
NOMINEES (con't)**

PROJECT	NAME	SCHOOL
8 PH 1207	Henry Alves	Kenmore
8 PH 1216	Kaiya Mitchell	Jefferson
8 PH 1219	Townson Cocke & Emmett Cocke	George Washington
8 ZO 1301	Rebecca Horovitz & Julia Rosenberger	Mary Ellen Henderson

RECOMMENDATIONS FOR VIRGINIA STATE SCIENCE & ENGINEERING FAIR 2016

PROJECT	NAME	SCHOOL
11 BE 131	Elizabeth Kelafant & Khin Kyaw	Yorktown
9 BI 202	Kalista Diamantopoulos	T.C. Williams
9 CH 438	Lily Pond	H-B Woodlawn
9 CS 503	Ana Humphrey	T.C. Williams
10 EN 720	Cory Dudka	Washington-Lee
12 EN 727	Megan O'Briant	Yorktown
10 EV 827	Skylar Brodowski	Washington-Lee
11 EV 835	Bilguunzaya Battogtokh	Yorktown
9 ME 1008	Annie Zetkulic	Washington-Lee
12 ME 1010	Sarah Golemon-Mercer	T.C. Williams
9 MI 1113	Kathleen Love	Yorktown
11 MI 1118	Grace Halford	Bishop O'Connell
9 PH 1227	Kelton Williams	Washington-Lee
11 PH 1236	Emma Sophie Moore	Yorktown
10 ZO 1303	Fiona Harris	H-B Woodlawn

BEST OF FAIR 2016

GRADES 7 & 8

Victoria Graf
Williamsburg

Evolutionary Approach to the Analysis of Classical Music Entropy

and

Townson Cocke and Emmett Cocke
George Washington

The Effect of Tubercle Amplitude and Wavelength on Fin Drag

GRAND PRIZE AWARDEES

Bilguunzaya Battogtokh
Yorktown

*Photodegradation of Organic Dyes Through Improved Catalysis Across
a Graphene Oxide-Doped Titanium Dioxide Substrate*

and

Megan O'Briant
Yorktown

*Power of Touch: Challenges in Designing Haptic Sensing and Feedback for
Neural Controlled Robotic/Prosthetic Hand*

ALTERNATE AWARDEE

Ana Humphrey
T.C. Williams

*ColiFind: A Digital Image Analysis Application to Identify Escherichia coli
Colonies in Coliscan Easygel Tests*