

Tesla STEM Student awards

ROCKET SCIENTISTS

[Rocket Scientists on the web.](#)

2016 HOSA RESULTS

Our students put forth a stellar performance at the HOSA Future Health Professionals State competition this weekend held at the Lake Washington Technical College WaNIC campus. *We have two state HOSA officers that will be representing Tesla STEM as well* - please congratulate **Vaishnavi Phadnis** who will be the HOSA *President-elect* for WA state and **Varsha Veermacheni** who will be the WA state HOSA *Reporter* for next year.

The following students have the opportunity to go to Nationals in Nashville, TN from June 22-25 this year:

CERT Skills: Pauline Pfaffe and Agata Skarbek - 3rd place

Dental Science: Kanae Lancaster - 2nd place

Public Health: Ashiana Dhanani, Rahul Srivistava, Anjali S and Caylynn Berosik - 2nd place

Extemporaneous Writing: Shravya Kakulammarri - 1st place

Researched Persuasive Speaking: Huy Pham - 3rd place and Prerana Kulkarni - 2nd place

Medical Innovation: Ashiana Dhanani, Rahul Srivistava and Anjali S - 2nd place

Behavioral Health, Knowledge test: Alissa Acheson - 3rd place

Medical Math, Knowledge test: Neha Hulkund - 3rd place

Human Growth and Development, Knowledge test: Shravya Kakulammarri - 2nd place

Pharmacology, Knowledge test: Shruti Kompella - 3rd place

Nutrition, Knowledge test: Vaishnavi Phadnis - 1st place

Transcultural Healthcare, Knowledge test: Sonia Murthy - 2nd place

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2016 IMAGINE TOMORROW RESULTS

Total winnings: 22K for school and students

Tesla Teams competed against 141 teams, entered 8 categories and took first in 7 of those categories and also won additional categories. Here is a breakdown:

Project Sustain: Most Likely to Succeed in the Marketplace; Food, Energy and Water Challenge: Behavior 1 st place	
Title	Name
PM	Caeli MacLennan
Energy Behavioral	Adrian Pang
	Theodor Johannson
	Patrick Kim
	Aditya Ramanathan
The NARA Biofuels Challenge:Technology	
Ethanol PM	Isaac Perrin
Biofuels -Tech	Anne Lee
	Neha Hulkund
	Suchi Sridhar
	Brandon Yue
The McKinstry Design Challenge (25 teams but this team did not place...please congratulate them on presenting well and bringing out a fabulous model to show off).	
LEED PM	Baptiste Debuire
Built Design	Milan Nair
	Sai Challa
	Isaac Jensen
Food, Energy, Water: Design First Place.	
Perm membrane	Hemil Gajjar
Energy Design PM	Apoorv Khandelwal
	Vinay Khandelwal
The NARA Biofuels Challenge: Design, First Place	
Glycerol PM	Rashida Hakim
Bio Fuels Design	George Cheruvathur
	Vidha Sudhesh
Global Impact Award; Food, Energy, Water Challenge: Technology	
solar disinfect PM	Ben Zabback
Energy Tech	Maheck Jerez
	Margo Nanneman

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The McKinstry Built Environment Challenge: Behavior First Place	
ESPC PM	Afeef Sheikh
Built Behavioral	Sohaib Moinuddin
Exceptional Teamwork; The NARA Biofuels Challenge: Behavior First Place	
Trillion Ton PM	Karan Narula
Bio Fuels Behavioral	Abhinav Singh
	Kon Aoki
	Kush Khanolkar
	Tiger Chang

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2016 UW CSE APP CHALLENGE RESULTS

In the spring, 7 students teams submitted an extra credit app idea project to Technology Alliance. Two teams were selected to present and pitch their app idea at UWCSE on June 4, 2016.

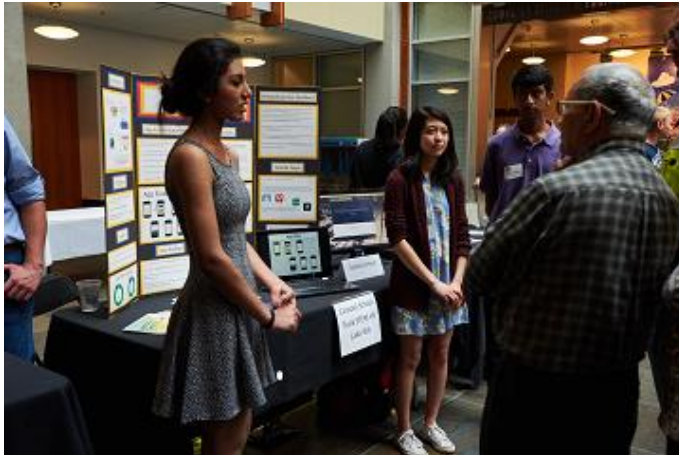
Carpool School: Anne Lee, Suchi Sridhar, Rayan Krishnan

Hope for the Homeless: Ila Sharma, Hamsa Shankar, Aashna Sheth, Sonika Tayade

One team made it to the top 3 and then WON Best App!! (Carpool School).

As Ms. Duenas said, "Congratulations to the team!! Faculty and students at T-STEM are a powerful combo. Our scholars not only know STEM content but also the research, problem solving, creativity, presentation strategies, and perseverance needed to be successful. That is our team effort approach in real time from freshman to senior year. Great work, everyone!! "

[Read more about UW's Youth Apps Challenge](#) [Read the story in the Redmond Reporter](#)



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2016 NWABR BIO EXPO RESULTS

T-Stem students had a successful day on Monday May 16 at the NWABR BioExpo. We are extremely proud of our Biomedical Engineering students and the hard work and dedication they put into these projects.

SMART Team 3D Printing

Honorable Mention -

Shannon Hu and Armaan Sood - Swimming Prosthesis with Adjustable Resistance for Transhumeral Amputees

Anthony Hoffman and Alex Garcia - Lending a Hand: A Specialized Computer Mouse Prosthetic

Ryan Bruntz and Priya Nakkiran - Magnagrip: A Driving Prosthesis for Single-Hand Amputees

3rd place - \$50 cash prize

Meena Reddy and Miranda Pehrson - Developing a 3D Printable Transtibial Prosthesis for Downhill Skiing

2nd place - \$75 cash prize

Sabreen Mohammed - Shoulder Holder

1st place - \$100 cash prize

Ady Botchev and Josh Bowlus - Bone Brace for Comminuted Fractures as an Alternative to Amputation

Lab Research

Honorable Mention -

Pauline Pfaffe and Kyle Slotten - Respirator Utilizing Activated Carbon and Membrane Filtration to Inhibit Air Pollutants

Shravya Kakulamari and Stephanie Mai - Identifying Genetic Differences and Similarities in DNA Barcodes of Species of Puget Sound Fish

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2016 MODEL UN RESULTS

March 7, 2016

Tesla STEM High School students did an outstanding job at the 2016 Washington Model United Nations Conference held this past weekend on the University of Washington campus in Seattle. Twenty STEM scholars competed with their skills in research & writing, public speaking, debate, diplomacy and leadership against private and public schools from across the region.

Participants in Model UN conferences, known as delegates, are placed in committees based on actual UN groups, including the General Assembly, Human Rights Council, etc. and assigned countries, along with a topic or topics that their committee will discuss. Delegates conduct research before conferences and formulate positions that they will then debate with their fellow delegates in the committee, staying true to the actual position of the country they represent. Prizes are given for written position papers and for performance as a delegate.

The following students received awards:

Nivida Thomas (Greece) -- UN Office on Drugs & Crime Position Paper (Tesla STEM MUN Club President)

Michale Levenkov (Chile) -- General Assembly Distinguished Delegate

Neav Topaz (Maldives) -- Economic & Social Council, Position Paper

Aashna Sheth (Greece) -- Economic & Social Council, Distinguished Delegate

Congratulations to the entire STEM MUN team!

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2016 FBLA FINALS RESULTS

Tesla STEM rocked at the FBLA State conference this weekend. Places 1 - 4 automatically qualify to go on to the National conference in Nashville this summer:

Business Ethics:

1st: Miranda Pehrson and Vibha V

5th Yash Pahade and Dinesh Parimi

Parliamentary Procedure:

2nd: Suraj B, Matthew Von Allmen, Dinesh Parimi and Miranda Pehrson

Management Information Systems:

1st: Huy Pham, Karisma Kulkarni and Teri Guo

Business Communication:

2nd Sonia Murthy

Business Plan:

4th Neav Topaz and Sarah Tarta

Introduction to Business Procedures:

4th Prerana Kulkarni

Personal Finance:

3rd Rashida Hakim

Economics:

3rd Rashida Hakim

1st Matthew VonAllmen

Introduction to Financial Math:

3rd Vaishnavi Phadnis

1st Rashida Hakim

Business Financial Plan

4th Neha Hulkund

Networking Concepts:

3rd Apoorv Khandelwal

Business Calculations:

5th Ben Trowbridge

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1st Dinesh Parimi

Introduction to Business Communication

1st Vaishnavi Phadnis

Word Processing

2nd Aditya Ramanathan

Securities and Investments

5th Frederick Qin

Sales Presentation

2nd Afeef Sheikh

Digital Video Production

3rd Patrick Mao

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Congratulations to over 50 Tesla STEM students who participated at the Regional FBLA conference on Saturday, Jan. 30 at Snohomish High School. These students (see attached) automatically qualify to attend the State Conference in Spokane in April.

Name	Award 1	Award 2	Award 3
Ahn, Suzy	2nd Graphic Design (team)	4th Website Design (team 2)	
Atienza, Lawrence	5th Emerging Business Issues (team)	3rd Intro to Info Technology	
Buddhavarapu, Suraj	1st Parliamentary Procedure (team)	1st Public Speaking II	
Chalmer, Katie	1st Creed	Top 5 Network Design (team 1)	
Coltori, Luigi	1st Business Law	5th Website Design (team 1)	
Dhanani, Ashiana	4th Emerging Business Issues (team)	2nd Graphic Design (team)	
Gajjar, Hemil	2nd Management Decision Making (team)	6th Securities and Investments	
Guo, Teri	Top 5 Management Info Systems (team)		
Hakim, Rashida	2nd Economics	3rd Intro to Financial Math	1st Personal Finance
Hulkund, Neha	1st Intro to Info Technology		
Kavikondala, Rishi	6th Public Speaking I	5th Publication Design (team)	
Khandelwal, Apoorv	3rd Future Business Leader	3rd Job Interview	1st Networking Concepts
Khanolkar, Kush	3rd E-Business (team)		
Kim, Nichelle	4th Job Interview		
Kordel, Calvin	5th Website Design (team 1)		
Krishnan, Rayan	Top 5 Entrepreneurship (team)		
Kulkarni, Karisma	6th Job Interview	Top 5 Management Info Systems (team)	
Kulkarni, Prerana	3rd Intro to Business Procedures	5th Job Interview	

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Lee, Andrea	4th Global Business (team)	4th Graphic Design (team)	
Lee, Anne	2nd Cyber Security	4th Intro to Info Technology	2nd Networking Concepts
Moinuddin, Sohaib	3rd E-Business (team)		
Murthy, Sonia	1st Business Communications	1st Business Ethics (team)	
Nagvekar, Neha	5th Emerging Business Issues (team)	1st Introduction to Business	4th Personal Finance
Narula, Karan	2nd Management Decision Making (team)		
Oei, Catherine	5th Public Speaking I		
Oratz, Jenna	4th Business Law		
Pahade, Yash	3rd Business Ethics (team)	5th Economics	
Paranasivam, Amulya	Top 3 Management Info Systems (team 1)	Top 5 Network Design (team 1)	6th Networking Concepts; 4th Public Speaking II
Parimi, Dinesh	1st Business Calculations	3rd Business Ethics (team)	1st Parliamentary Procedure (team)
Park, Betty	4th Graphic Design (team)		
Pehrson, Miranda	1st Business Ethics (team)	1st Parliamentary Procedure (team)	
Phadnis, Vaishnavi	1st Intro to Business Communication	4th Intro to Financial Math	1st Job Interview
Qin, Frederick	2nd Intro to Business Procedures	4th Securities and Investments	
Ramachandran, Aakash	Top 5 Entrepreneurship (team)		
Ramanathan, Aditya	2nd Global Business (team)	2nd Word Processing	
Ramesh, Rishi	2nd Insurance and Risk Management		
Salahuddin, Ali	5th Website Design (team 1)		
Sheikh, Afeef	2nd Sales Presentation		
Sheokand, Prerna	2nd Public Speaking I		
Sheth, Aashna	4th Global Business (team)	1st Intro to Business Procedures	4th Public Speaking I
Singh, Abhinav	2nd Business Calculations	3rd E-Business (team)	

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Sribalaskandarajah, Anjali	4th Emerging Business Issues (team)		
Tarta, Sarah	5th Public Speaking II		
Tayade, Sonika	3rd Intro to Business Communication		
Thind, Ranveer	Top 5 Entrepreneurship (team)		
Topaz, Neav	2nd Graphic Design (team)	4th Website Design (team 2)	
Trowbridge, Ben	5th Business Calculations		
Tseng, Audrey	5th Emerging Business Issues (team)	2nd Global Business (team)	
Vadlamani, Vibha	1st Business Ethics (team)		
VonAllmen, Matthew	1st Economics		
Walsh, Linnea	3rd Accounting I		
Wang, Andrew	2nd Global Business (team)	1st Parliamentary Procedure (team)	
Wang, Larry	Top 5 Management Info Systems (team 1)		
Yang, Claire	4th Global Business (team)	4th Graphic Design (team)	
Yin, Eric	5th Publication Design (team)		

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2016 WASHINGTON TSA RESULTS

The Technology Student Association is an international student organization devoted exclusively to the needs of students interested in science, technology, engineering and mathematics as well as business education. The Washington TSA State Conference was held on March 31-April 2, 2016. It was the largest conference to date, with 828 participants.

Congratulations to our students who did an amazing job!

Career Preparation: Pranav Sukumar 1st place

Desktop Publishing: Pranav Sukumar 2nd place

Engineering Design: Team of Sribalakandarajah, Shuman and Murali 2nd place; Team of Yin, Wang and Park 3rd place

Essays on Technology: Anjali Sribalaskandarajah 1st place

Extemporaneous Speech: Hemil Gajjar 3rd place

Music Production: Team of Sahi and Cidambi 3rd place

On Demand Video: Team of Sapkota, Donyes, Mao and Hatfield 4th place

Photographic Technology: Rishi Kavikondala 3rd place

Prepared Presentation: Rishi Kavikondala 1st place

Software Development: Team of Singh, Khanolkar, Narula and Aoki 2nd place

Technology Bowl: Hemil Gajjar 2nd, Abhinav Singh 4th

Video Game Design: Team of Singh, Khanolkar, Narula and Aoki 1st, Team of Jerez, Newfeld, Mao and Kumar 5th place

Webmaster: Team of Mao and Kumar 3rd place, team of Khanolkar, Narula and Aoki 5th place

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2016 WASHINGTON AEROSPACE SCHOLARS NAMED

Local Students Participating in Phase One of the

Washington Aerospace Scholars Program at The Museum of Flight

Washington Aerospace Scholars Program provides opportunities for high school students interested in science, technology, engineering, and math

(SEATTLE, March 3, 2016)

Now in its 10th year, the Washington Aerospace Scholars (WAS) program is pleased to announce that the following student(s) from your school district are participating in Phase One of the 2015-16 program cycle:

Patrick Mao - Tesla STEM High School
Hassanain Ali - Tesla STEM High School
Nikolay Bykov - Tesla STEM High School
Chirag Das - Tesla STEM High School
Nolan van Hoff - Tesla STEM High School

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2016 TOSHIBA EXPLORAVISION AWARD

Students Varsha Veeramachaneni, Zodhi Cooperrider-Young, and Akshita Khanna submitted their prosthetic device from Biomedical Engineering to the Toshiba ExploraVision national contest. The students won an honorable mention award, meaning they were in the top 10% of all projects submitted nationally. This group was the only high school division honorable mention in the state of Washington.

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2016 WASSEF RESULTS

Tesla STEM won a great trophy at the Washington State Science & Engineering Fair's "Excellence in Scientific & Engineering Achievement, Grades 9th -- 12th." It's essentially the "Best School" Oscar! Congratulations to all the students and the TEACHERS who lead and inspire them.

1. The team of Ben Zaback, Margo Nanneman and Maheck Jerez are "Bronze" ISEF Finalists. This qualifies them to go the big fair!
2. The Whitman College \$2500 renewable scholarship: Afeef Sheik
3. The Evergreen College "1/4" Scholarship: Zaback, Nanneman and Jerez
4. The Ohio Wesleyan University \$20,000 Renewable Scholarship: Sheik, Zaback, Nanneman, Jerez, Apoorv Khandelwal, Hemil Gajjar*
5. Beluga Software Award: 3rd Place, Sheik
6. American Psychology Association Award: Tara Ghazanfari & Lola Par*
7. Yale Science & Engineering Association Award for Most Outstanding Exhibit in Computer Science, Engineering, Physics & Chemistry: Khandelwal & Gajjar
8. Optics & Photonics Special Award: 2nd Place, Gurleen Gill & Gabby McDaniel
9. Wolfram Research Certificate of Achievement (40 were awarded): Zaback, Nanneman & Jerez, Khandelwal & Gajjar, Gill & McDaniel and Kanae Lancaster.
10. "Do Real Things Award" (from Parents & Teachers: Alissa Acheson, Agata Skarbek & Caylynn Berosik

* Students won as part of teams but did not actually attend WASSEF)

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2016 STEM Faculty Finalists for FETC Award

Annie Fort, Alyson Nelson, and Melissa Wrenchey have been named finalists for the FETC STEM Excellence Awards for 2016!

The FETC STEM Excellence Awards were created to recognize excellence and innovation in the field of STEM education at the primary, middle and high school levels, with nominees and winners selected from each level. STEM is a curriculum based on the idea of educating students in four specific disciplines — science, technology, engineering and mathematics — in an interdisciplinary and applied approach.

STEM Excellence Awards will be evaluated based on the use of Interdisciplinary Curriculum, Collaboration, Design, Problem Solving and the STEM Experiences offered by each school. TEM Excellence Awards will be evaluated based on the use of Interdisciplinary Curriculum, Collaboration, Design, Problem Solving and the STEM Experiences offered by each school.

The FETC STEM Advisory Board evaluated hundreds of applications and was impressed by the innovation and educational impact many STEM programs across the country! The finalist schools are among the Top 10 STEM Programs in the Nation!

We are very proud of their accomplishment and are thrilled to share their programs and insights with the entire education community at our upcoming FETC 2016 conference. The STEM Awards Ceremony will be held at 8:30 am on Thursday, January 14, 2016 on our Keynote Stage at the National FETC Conference.

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2016 CSREF RESULTS

March 12, 2016

Our Tesla STEM students once again competed with excellence and pride at the Central Sound Regional Science and Engineering Fair. Of the 9 categories this year, our students competed in 8 of those categories and took home a total of 28 awards and prizes!

Please congratulate all students that participated at CSRSEF if you see them in the halls or in your classroom-there are other students who participated that even though they did not receive a prize, they put forth a tremendous amount of time and effort and some also produced award-winning innovative research in my opinion.

The following students received the following awards:

Organismal Science: Animal (ANIM), Plant (PLNT)

2nd place: Gurleen Gill, Gabrielle McDaniel and Kanae Lancaster, *Bio-Photovoltaic Solar Panels from Micro Photosynthetic Power Cells Using Blue-Green Algae*

Honorable Mention: Olivia Edgington and Megan Lawther, *Effect of Processed vs. Whole Foods on Memory*

Supernova Award: Isabella Fillippini and Rose Matta, *The Effect of Washington Water Pollutants on Daphnia Heart Rates*

Behavioral and Social Sciences (BEHA)

1st place: Christine Pham, Elena Rettig, and Varsha Veeramachenei, *The Effects of Social Media Usage on Stress Levels*

2nd place: Tara Ghazenfari and Lola Par, *Project Recidivism Reduction*

3rd place: Catalina Fox, *The Effects of Meditation on Blood Pressure Levels*

Honorable Mention: Helen Maslen, Maanasa Nandula and Priyanka Taneja, *The Effect of Placebo on Menstrual Pain Reduction*

Honorable Mention: Bradley Devin, Ben Schwedler and Megan Desilva, *The Effects of Binaural Beats on Working Memory Capacity in High School Students*

Supernova Award: Anna Miller, *The Effects of Classical Music vs. Pop Music on the Memory of an Illustration*

Tesla STEM Student awards**Biomedical and Health Sciences (BMED), Bioengineering (ENBM), Materials Science (MATS)**

Honorable Mention: Afeef Sheikh, *A Helping Hand: Utilizing Augmented Reality to Aid in Rehabilitation Processes*

Honorable Mention: Andrew Wang and Effie Jia (from CA), *The Implementation of Polystyrene and Graphene in the Active Layer of PCDTBT: PCBM Inverted Organic Solar Cells to Increase Energy Conversion Efficiency*

Earth and Environmental Sciences (EAEV), and Engineering (ENEV)

1st Place: Maheck Jerez, Margo Nanneman and Ben Zabback, *SODIS Support Device*

3rd Place: Alissa Acheson, Agata Skarbek and Caylynn Berosik, *The Analysis of Water Variation in Various Populated Areas Based on pH, Turbidity, Total Dissolved Solids, Dissolved Oxygen and Nitrates*

Honorable Mention: Chirag Das, *Osmotic Pressure and Electric Circuit with the Early Detection of Toxins in Water*

Supernova Award: Aimee Roseberry and Quinton Skinner, *Collecting Energy Through Piezoelectric Sensors*

Embedded Systems (EBED) and Systems Software (SOFT), Robotics and Intelligent Machines (ROBO)

Honorable Mention: Neha Nagvekar, *Smart Health Monitoring*

Energy: Chemical (EGCH) and Physical (EGPH)

2nd place: Anne Lee, Brandon Yue and Issac Perrin, *Pressurized Distillation: An Energy Efficient Approach to Ethanol Extraction in Biofuel Production*

Special Awards:

US Air Force Awards: Gurleen Gill, Gabrielle McDaniel and Kanae Lancaster, *Bio-Photovoltaic Solar Panels from Micro Photosynthetic Power Cells Using Blue-Green Algae* and

Andrew Wang and Effie Jia (from CA), *The Implementation of Polystyrene and Graphene in the Active Layer of PCDTBT: PCBM Inverted Organic Solar Cells to Increase Energy Conversion Efficiency*

Excellence in Scientific Research and Engineering Awards: Helen Maslen, Maanasa Nandula and Priyanka Taneja, *The Effect of Placebo on Menstrual Pain Reduction* and

Sarah Tarta and Neav Topaz, *Bioremediation of Soil and Conversion of Expanded Polystyrene (ESP) Solvated by D-Limonene to Fungal Sugars (Bioavailable Carbon) by Pleurotus Ostreatus Fungi*

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American Psychological Association for Achievement in Research in Psychological Science: Christine Pham, Elena Rettig, and Varsha Veeramachenei, *The Effects of Social Media Usage on Stress Levels*

Association for Women's Geoscientist Award: Alissa Acheson, Agata Skarbek and Caylynn Berosik, *The Analysis of Water Variation in Various Populated Areas Based on pH, Turbidity, Total Dissolved Solids, Dissolved Oxygen and Nitrates*

People's Choice Award: Rifat Rashid and Sohaib Moinuddin, *Implementation of a Fingerprint Sensor on Door Locks*

Stockholm Junior Water Prizes: Hemil Gajjar and Apoorv Khandelwal, *Optimizing Water Permeability in Nanoporous Graphene Membranes for Reverse Osmosis Water Desalination* and Maheck Jerez, Margo Nanneman and Ben Zabback, *SODIS Support Device*

National Oceanic and Atmospheric Administration (NOAA's) 2015 Taking the Pulse of the Planet Award: Alissa Acheson, Agata Skarbek and Caylynn Berosik, *The Analysis of Water Variation in Various Populated Areas Based on pH, Turbidity, Total Dissolved Solids, Dissolved Oxygen and Nitrates*

ASU Walton Sustainability Solutions Award (also affiliated with ISEF): Maheck Jerez, Margo Nanneman and Ben Zabback, *SODIS Support Device*