



Experience the world of scientific inquiry through a variety of student presentations, displays, and demonstrations.

Academy Information Brochure -

<http://www.flipsnack.com/FA777CF569B/fdcsvas8>

Academy Blog - Dolphin Watch -

<http://blogs.vbschools.com/msacademy-dolphinwatch/>

Academy Facebook Page -

<http://tinyurl.com/MS-Academy-OLHS>

Academy Website -

<http://www.oceanlakeshs.vbschools.com/academy/>

Twitter Feed -

[@MSAOLHS](https://twitter.com/MSAOLHS)

The Mathematics & Science Academy

Research Symposium IV

Saturday, April 18, 2015

Ocean Lakes High School
885 Shumann Drive
Virginia Beach, VA 23454



Academy Coordinator: Mike King

Phone: 757-648-5550

Fax: 757-721-4309

E-mail: James.King2@VBSchools.com

A G E N D A

- 1:00-1:30.....Welcome, Symposium Introduction,
Keynote Speakers:
Vashaana Sahadeo and Dr. Lambros Tzerefos
- 1:40-2:40.....Session A, followed by 10 minute break
- 2:50-3:50.....Session B, followed by 10 minute break
- 4:00-5:00.... Session C, followed by clean-up. Please
take your displays home.

Be sure to check out the QR codes up on the boards in the main foyer to plan your symposium experience!

We also invite you to visit our Capstone Project Gallery in the cafeteria during breaks.

T A B L E O F C O N T E N T S

Session A Trifolds	Page <u> 2 </u> to <u> 3 </u>
Session A Presentations	Page <u> 3 </u> to <u> 7 </u>
Session B Trifolds	Page <u> 8 </u> to <u> 9 </u>
Session B Presentations	Page <u> 9 </u> to <u> 13 </u>
Session C Trifolds	Page <u> 14 </u> to <u> 15 </u>
Session C Presentations	Page <u> 15 </u> to <u> 20 </u>

Symposium Planning

<i>Plan your symposium to be sure you see your favorite topics.</i>	
<i>1:40</i>	1:50
<i>2:00</i> <i>Location:</i>	2:10 Location:
<i>2:20</i>	2:30

<i>2:50</i>	3:00
<i>3:10</i> <i>Location:</i>	3:20 Location:
<i>3:30</i> <i>Location:</i>	3:40 Location:

<i>4:00</i> <i>Location:</i>	4:10 Location:
<i>4:20</i> <i>Location:</i>	4:30 Location:
<i>4:40</i> <i>Location:</i>	4:50 Location

Be sure to pick up your trifold immediately following the end of symposium. Also, be sure to leave your “best in show” forms in the boxes

Senior Project Gallery Notes

Visit the senior project gallery. Use the space below to jot down ideas, mentor names, student contact information, or questions you'd like to ask the senior who completed the project or Mrs. Graves.

Future Symposium Ideas

Jot down any ideas inspired by what you see today. Who knows where these ideas might go!

Session A Trifolds

During this time you can speak with Session A trifold presenters in the Gym.

Physical Physician:

Amir Abbasi

Discovering the Basics of Neurology:

Malikah Ajose

How to Save Trees: Alternate Paper Sources:

Katelyn Alt, Abby Craft

The Effect of Suggested Information on Memory:

Mady Ashworth

Harnessing the Sun's Energy:

Patricia Asiatico

The Effect Shoes Have on the Time It Takes to Run an 800 Meter Race:

Brent Bailey

The Effect of Peer Pressure on Teens:

Katie Bastable

Dishing the Dirt: Soil pH:

Teaghan Brennan

The Effect of Group Size on Conformity:

Jack Burns

The effect of acetone percentage on effectiveness of nail polish remover:

Shadaye Byfield, Jakira Pettaway

Does soil pH really matter?

Cady Thomas

Is That Your Final Answer? A Study of How Manipulation Can Alter a Person's Decisions: **Casey Carpenter**

Male and Female Teenage Perception of Obesity: **Kristen Choi**

The Flood of Data on Norfolk's Rising Problem: **Chris Lucy**

Neuroscience: **Christal Firmacion**

How Far Will You Go?

Kquanise Corbin

The Effect of Interval vs. Cardio Workouts on Stress:

Samantha Crowley

The Cardiovascular System:

Rainielle Cua

The Correlation Between Bacteria on Fountains and Water Quality:

Nicole Cunanan

The Best Jump Training Exercise for Increasing Your Vertical:

Maddy Delmonte

Vaccines:

Megan Dillon, Jessica Poon, Nina Salugao

Perpetual Motion:

Sam Edwards

The Effect of the Amount of Leavening Agent on the Density of a Muffin:

Angelica Estrada

The Effect of the Reprogramming of Stem Cells into Gametic Cells on Human Reproduction **Andrew Bojanowski**

Session A Trifolds, Continued

Bouncing Around With Polymers: Hunter Carstens	Colorful Memory: Influencing Memorization With Color: Sarah Fike
The Effect of Different Oils on Oral Flora : Kristen Cawthorn, Kelly Wiegand	Vitamin "Sea": Joely Fisch
Which Gender Thinks More Logically? Jenny Freebus, Nathan Clements	In Home Farming: A Comparison of Two Types of Hydroponics: David Griffith
Physical Therapy As It Relates To Sports Injuries: Paul Glocker	Origami Mathematics and Paper Efficiency: Gheramy Guzman
Going the Distance: Metal vs. Wooden Bats: Garrett Godusky	The Physics of Cheerleading: Natalie Hackmann
Film Soup: Altering Photographic Film: Sophie Gonzales, Charlotte Delumpa-Alexander	Observations of Two Laparoscopic Surgeries: Alex Knoop
Link2Links: Isabella Gonzalez, Argie Limberis	The Effects of Charcoal in water Filtering: Andrew Larson
The Effect of Studying Music on SAT Scores: Laura Grabarczyk	The Effects of Various Chemicals on The Growth of Algae: Schweers, Carter, Thrasher

Session A Demonstrations: DCC

Demonstrations will be running throughout the duration of this session

Testing the Efficiency of a Homemade Wind Tunnel:	Austen Baker
Seeing the Spectrum in a New Light:	Nel Hart
Building a Van de Graaff Generator:	Matt Luksik
Brain Tendencies: Letter and Number Combinations:	Carter McCracken
What is the effect of surface area on the rate of decent through a liquid?	Brian McNamara, Colton Demetriou
The Effect of Variation on Efficiency:	Jonathan Montes

Session C Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>Lung Cancer: A macroscopic View on these Microscopic Cells:</i>	Brian Hsu	Auditorium/4:50
<i>Proving Ohm's Law:</i>	Chloe Wynns	154/4:50
<i>Sea Turtle Trouble:</i>	Michael Aspinwall	155/4:50
<i>Geology, the Study of Our Planet:</i>	Karl Ziegler	156/4:50
<i>Chiropractic Medicine vs. Sports Medicine</i>	Emily Walton, Andrea Seyrlehner	157/4:50
<i>The Effects of Sound Waves on Visible Nodes and Anti-Nodes:</i>	James Yang, Cason Brinson	158/4:50
<i>The Affect of Using Basketball Statistics to Predict the Outcome of NCAA Tournament Games:</i>	Zach Collins	159/4:50
<i>The Effect of Music on Test Takers:</i>	Leo Brennan	116/4:50

Thank You!

A special thank you to the MSA Boosters who provided presenters with refreshments and water in the cafeteria throughout this event.

Also, thank you to parents, family members, and community partners in attendance today. Our students' and faculty appreciate your support.

Session C Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>High School Relationship Statistics—Determining the Dates</i>	156/4:30
Marcelo Sleiman Jr. , Adrian Araque Jr.	
<i>The Impact of Ebola on Africa:</i>	157/4:30
Edward Stevens	
<i>The Effects of Physical Activity on Cognitive Ability:</i>	158/4:30
Tori Robertson	
<i>The Effect of Music on Emotion:</i>	159/4:30
Neo Sanson	
<i>Tear, Repair, all in one Knee:</i>	116/4:30
Jazzell Mangosing	
<i>Desensitization to Violence Through Media:</i>	Auditorium/4:40
Albert Roldan	
<i>Alien Invaders: The Snakehead and Lionfish:</i>	154/4:40
Sean Wilms	
<i>Lefties versus Righties: Statistical Analysis of Hand Dominance in</i>	155/4:40
<i>NFL Quarterbacks:</i> Tyler Caron, Dillon Glover	
<i>Fired Up on Flight:</i>	156/4:40
Jody Smith	
<i>Nuclear Reactors and Nuclear Energy:</i>	157/4:40
Bobby Sutton	
<i>The Relationship Between phi and Climax of Music:</i>	158/4:40
Trey Rodman	
<i>The Effect of Pollution on Bioluminescent Dinoflagellates:</i>	159/4:40
Sarah Scharf	
<i>Superconductors: The Electromagnetic future:</i>	116/4:40
Ceven Hill	

Session A Films: Schola

Please don't enter presentation rooms with closed doors.

A closed door means a video in session.

<i>The Finless Rocket:</i>	1:40-1:50
Alex M. Gravely	
<i>Just in Time: The Effect of Tempo on Timing Discrepancies Between Percussionists</i>	1:50-2:00
T. Mathwig, G. Tiongco	
<i>An Investigation of Cryogenic Liquids</i>	2:00-2:10
Alec Wirstrom and Nathan Luksik	
<i>The Project We Didn't Lose Sleep On: A Study of Sleep Enhancement:</i>	2:10-2:20
Amber Lillerr, Kelsey Charbenaue	
<i>Neurostimulation Observed: Transcranial Direct Stimulation:</i>	2:20-2:30
Alvin Yuan, Paolo Ongoco	
<i>Ballpark Estimates: Studying Outcomes of a Baseball Game:</i>	2:30-2:40
Hunter Bishop	

Session A Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

Modelling the Height of Model Rockets:	Auditorium/1:40
John Edwards	
Are Our Elders Truly the Wisest?	154/1:40
Ben McGrath	
The Effect of Food Quality on Feline Digestion:	155/1:40
Margaret Kirschbaum, Amanda Hasty	
The Effect of Stress on Ability to Achieve:	156/1:40
Chris Eaton	

Session A Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>The Effect of Social Media on Happiness:</i> Mara Hart, Ashley Verschueren	157/1:40
<i>Alcubierre Warp Drive:</i> Quinn Cuskey	158/1:40
<i>The Effect of Priming on Satisfaction:</i> Anthony Jones, Tyler Crissman	Auditorium/1:50
<i>Mystery Math: Enigmas in Mathematics:</i> Anthony Jones, Tyler Crissman	Auditorium/1:50
<i>The Effect of Time on Verbal Overshadowing:</i> Milcah Barretto, Eliza Navarro	154/1:50
<i>The Reliability of Eyewitness Reports:</i> Kritika Ghimire, Ciara Barrogo	155/1:50
<i>Reaction Time:</i> Bescent Ebeid, Kiara Douglass	156/1:50
<i>Brain Hemorrhages in Preemies:</i> Delaney Hinkley	157/1:50
<i>Are You Really in Control of the Decisions You Make?:</i> Alex Stern	158/1:50
<i>The Relationship Between Carbon Dioxide and Temperature:</i> Nicolette Pember	159/1:50
<i>The Effectiveness of Foods on Lowering Blood Glucose Levels:</i> Nicolette Pember	Auditorium/2:00
<i>A Study of Gene Therapy:</i> Xavier Moore	154/2:00

Session C Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>Material Study of Various Polymers and Additives:</i> Justine Sambo	159/4:10
<i>The Mind and Memory:</i> Talesia Yancey-Scarbor	116/4:10
<i>Veterinary Orthopedic Surgery:</i> Rachel Boyce	Auditorium/4:20
<i>The Impact and Management of Ranaviruses:</i> David Weisenbeck	154/4:20
<i>The Difference Between Live-Action and Animated Media:</i> Ellen Hufford	155/4:20
<i>Low-Budget Security Robot:</i> Vishal Singh	156/4:20
<i>The Effect of Friction on Apparent Perpetual Motion:</i> Marcus Starks	157/4:20
<i>How Realistic can Realistic Video Games Get?:</i> Autumn Roberts	158/4:20
<i>Information Theory and Daily Life:</i> Samuel Lebo	159/4:20
<i>Level Up: The Growth of the Video Game Industry:</i> John Ketzer	116/4:20
<i>String Theory versus Loop Quantum Gravity:</i> Darius Mattson	Auditorium/4:30
<i>Virtual Reality</i> William Pietri	154/4:30
<i>Fusing the World One Particle at a Time</i> Mackenzie Tottle	155/4:30

Session C Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>The Geometric Representation of Complex Numbers:</i> Ralph C. Sun	Auditorium/4:00
<i>How Does Growth Affect the Diameter of Lichen:</i> Tristan Walker	154/4:00
<i>The Effect of Music Genre on Test Performance:</i> Vishal Talla	155/4:00
<i>Does the Amount of Dissolved Minerals in Water Affect Oxidation?</i> Tyler Sconing	156/4:00
<i>The Correlation Between Relative Frequencies of Roman Numerals in Practice AP Questions and their Answers:</i> Joshua Smith	157/4:00
<i>Your Identity Right at Your Fingertips:</i> Timothy Reibel	158/4:00
<i>Epilepsy:</i> Abraham Hannah, Alisi Motu'Apuaka	159/3:00
<i>The Python Strikes: An Introduction to Python Programming:</i> Selwyn N. Hector	Auditorium/4:10
<i>The Positive Effects of Caffeine:</i> Abigail Watson	154/4:10
<i>Supervolcanoes—the basics:</i> Justin Theis, Matthew Theis	155/4:10
<i>Virtual Design and Engineering:</i> Ruofan Shen	156/4:10
<i>Investigation into Life Support Systems on a Manned Mission to Mars:</i> Andrew Sorenson	157/4:10
<i>Teeth Shining Bright Like a Diamond:</i> Samantha Revolinsky	158/4:10

Session A Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>The Effect of Premium Gas on a Lawnmower's Efficiency:</i> Chris Levine	155/2:00
<i>Experimenting with Memory: Reinforcement, Conditioning, Recall, and Misinformation:</i> Elijah Edwards	156/2:00
<i>Studying the Effects of Various Lenses and Colors on the Strength of a Laser:</i> Nicholas Hollen	157/2:00
<i>Biobacking: A Gateway to the Future</i> Ryan G. Alexander	158/2:00
<i>An Exploration of Jupiter's Magnetic Field:</i> Dylan Campbell	159/2:00
<i>The Evolution Pattern of the R-pentomino</i> Roark Corson	Auditorium/2:10
<i>The Science of Garden Design:</i> Emily Moreland	154/2:10
<i>Static Friction Coefficients of Various Materials and Surfaces:</i> George Limberis	155/2:10
<i>Butchering the Breed:</i> Samantha Ewald	156/2:10
<i>Testing Water Quality in the Lynnhaven River Watershed:</i> Kiersten Honig	157/2:10
<i>Does the Sense of Vision Increase Reactivity:</i> Aesha Amin	158/2:10
<i>Does Gender Play a role in the Development of a Heart Condition?</i> Reijyel Carr	159/2:10
<i>Turn Back Time:</i> Camryn Burley	Auditorium/2:20

Session A Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>Neurosurgery Basics:</i> Nick Low	154/2:20
<i>The Effect of Later Class Hours on High School Students:</i> Sam Lisner	155/2:20
<i>The Effect of Hurricanes on Sea Surface Temperature:</i> Alexander Fernandez	156/2:20
<i>In-Vitro Tooth Decay:</i> Alisa Houghton	157/2:20
<i>Perpetual Motion: An In-Depth Analysis</i> Jared Anderson	158/2:20
<i>The Effect of Environmental Stimuli on Cognitive Functions:</i> Jackie Chao, Madi MacDonald	159/2:20
<i>A Study of Pediatrics:</i> Rohan Joshi	Auditorium/2:30
<i>How the Accuracy of a Rail Gun is Affected Over Range:</i> John O'Donnell, David Jacobson	154/2:30
<i>The Art in Left and Right Brainers:</i> Fern Lumsun	155/2:30
<i>The Effect of Sound Waves on Extinguishing a Flame:</i> Joe Fogelman, Jacques DuPlessis	156/2:30
<i>The Effect of Different Wavelengths on Basil Plant Growth:</i> Josh Hughes	157/2:30
<i>Theaflavins and Thearubigins in Black Tea:</i> Ashley Cooper	158/2:30
<i>The Effect of the Outer Ear on Matching Pitch:</i> Shannon Crowley	159/2:30

Session C Demonstrations: Room 169

Demonstrations will be running throughout the duration of this session

Human Voltaic Cell Sean Burtner, Elissa Cleland, Julia Wickard
Modeling 2-Dimensional Fluid Vortices Gunnar Calvert, Trajan Caines, Megan Dixon
How Airflow Affects a Wiffle Ball's Curve: Ben Hilliard
Checkmate! Playing into Programming Justin Mariner, Harry Haveles, Jonah Lapira
Virtual Carnival Lucas McCormick, Sam Furman, Swopnil Joshi
We Built a Go-Kart—Go Speed Racer! Holden McNerney, Adam Yi
Miniature Plasma Cutter Made of Household Objects Adam Taylor
Hunting Through the Generations Jason Young, Chandler Kemp

Session C Films: Schola

Films playing on a loop during this time. Walk-ins welcome!

<i>Anthropogenic Marine Debris Ingestion by Pelagic Fish</i> Jacob Bushey	4:00-4:10
<i>How to Drink Dirty Water</i> Mehron Kouhestani	4:10-4:20
<i>Solar Energy: The use of photovoltaics to generate power</i> Connor Penny	4:20-4:30
<i>Ancient, Holistic, and Alternative Solutions to Insomnia</i> Hope Jackson	4:30-4:40
<i>An Introduction to Internal Medicine:</i> Jordan Hall	4:40-4:50
<i>Its Going Tibia Great Day: An exploration in anatomy and physiology</i> Grace Taylor	4:50-5:00

Session C Trifolds

During this time you can speak with Session C trifold presenters in the Gym.

How fast can you react? Spencer Plutchak, Samuel Spillers, Gabriel Hasl	Students vs. Student-Athletes on Academic Achievement Chet Wiltshire
Affects of Different Types of Music on Concentration Mikayla Spivey	The History and Effects of the Academy System on the Virginia Beach Public Schools Mallory Winter
Environment vs. Profit: A Study of Atmospheric Aerospace Thomas Super	Let It Grow: Shampoo on the Hair AnneMarie Woods
Timing is Everything Tarraina Turner	Exploring Engineering and Linguistics Christopher Wynn
The Effect Of Introversion and Extraversion on the Speed a Subject Can Read a Passage Charles Via	The Effect of Different Types of Computer Cooling on Computer Performance Jeffrey Zhang
Autism in Education Emily Stoops	Do Actions Speak Louder Than Words? Emily Ware
The Science of Glacial Calving Hunter Voltz	A Look into the Engineering Field Sean Whiteman
The Effect of Chewing Gum on Mental Concentration and Correctness Autumn Wallace	Benthic Invertebrates Taxonomy Morgan Will
The effect of different materials on communication signal strength Charles Wilson, Alexander Stankus, Nick Brown, and Weston Mundy	

Session C Demonstrations: DCC

Demonstrations will be running throughout the duration of this session

Are You Smarter Than a Game Show?	Leslie Blustein, Amanda Hackett
Small Scale Solar House Efficiency:	Danielle Hart, Madeleine King
The Effect of Force on Catapult Accuracy:	Joey Kirby
The Effect of Wind on the Durability of Bridges	Carl Pelton, Alex Sablan
Music and Math: Wine Glass Music	Will Scheib

Session B Trifolds

During this time you can speak with Session B trifold presenters in the Gym.

Sleeping Musically: The Effects of Tuning Memorization While Sleeping Rachelle Hart	The Effect of Iron Filing Size on Oil Manipulation through Magnets Nicholas Jones
Birthday Paradox Carter Hedinger	Engineering Design: An Exploration into Hand planes Justin McPherson
The Dangers of Synthetic Turf Coral Hendrix	The Ability of Dogs to Recognize Color Kaitlyn Woodruff
Learning from Past ODU Experiments Robert Herzik	Enflourage: The Extraction of Perfume Oils Aveline Knoop
The Math and Science of Running Justice Hill	Store Brand vs. Name Brand vs. Homemade Whitening Toothpastes Breanna Kokes
Constructing a Prosthetic Bradley Hilliard, Jack Monroe	The Effect of Building Material on the Strength of a Geodesic Dome Melissa Konathapally
The Effect of Hull Design on the Hydrodynamics of a Ship Nick Hoople	Juvenile Arthritis Merly Konathapally
Chunk Your Way To An A Emma Hultin, James Ogletree	Solving Crimes Using DNA Evidence Justin Kontos
The effect of exercise on retaining information throughout the day Harrison Hurst	How To Improve Vision Naturally Alisa Kosovsky
An Exploration of Mechanical Engineering James Zecchini	Promising Plastics: The Effect of Varying Starches on the Versatility of Bioplastic Natalie Kubicki
The Nature of Cancer Jeffrey Ferguson	Risk to Reward Madelyn Kundra
Malware vs Anti-Virus Software Joel Aquino	The Effect of Chewing Gum on Memory Emily Kwiatkowski

Session B Trifolds

During this time you can speak with Session B trifold presenters in the Gym.

Building the Optimal Bridge Design David Lesko	The Effect of Changing a Sinusoid's Amplitude on its Derivative and Integral Mack Mohr
Project Purity: Working with water filtration systems Christian Young, Daniel Zalivchii	The Effects of Various Proteins and Amino Acids on Muscle Building Cyrus Morshedi
Effects of Gender and Lifestyle on Cardiovascular Exercise Pandora Linkey	Let's Be Clear: Study of Water Conservation Megan Motter
How Listening to Music Affects the Human Brain Carter Litton	The Effects of Different Substances on How Far a Dancer Will Slide on the floor Olivia Fox
The Effects of Temperature on the pH and Salinity of Salt Water Eric Lohr	Patrick Vite
The Golden Ratio and Its Effect on Beauty Lindsay Magnant, Meagan Berry	The Golden Ratio Ali McKinney
The Effects of Fluorescent Lighting on Plant Growth Ali Mand	Synthesizing STEM Awareness Eileen McNulty
A Study of Forensic Pathology Matias Palmisano	Common diagnostics for infants Brooke Mister
Discoveries of the Heart Mahdis Mohit	

Session B Demonstrations: DCC

Demonstrations will be running throughout the duration of this session

The Future of Prosthetics: Use of 3D Printing for Removable Pediatric prosthetic Knees: Laney Butt	
Measuring Refractive Index on Different Substances	Peter Chen
The Future is in Our Hands	Eden Elmore
Exploring Infrared Sensors: Line Following Robot	Jerra Ewing
Which Battery is the Most Efficient	Katelynn Loos, Kim Lowe
Pick's Theorem—Is it For Real?	Varanika Sharma

Session C Trifolds

During this time you can speak with Session C trifold presenters in the Gym.

The Relationship Between the Gender and Answers to Various Questions John Park	The Effect of Magnet Material on Volts Produced Michael Ridgway
Relation Between Coins and Battery Voltage Bhavik Patel	Structural Engineering: Which Bridge Can Support the Greatest Load Without Failing? Nick Ritz
Comparing the Pigments of Vitamin C Fruits Through Paper Chromatography Shraddha Patel	An Examination of the Effectiveness of Current Respiration Models Ryan Schleicher
FBI Post Blast Forensics: From Event to Attribution Giada Peters	The Effect of Specialized Education Programs on Emotional Intelligence Adriana Schmidt
The Effects of Chirality on Medical Applications Matthew Pieczynski	The Impact of Personality Traits on Social Media Habits Jordan Sconing
The Effect of Scoop Depth on the Accuracy of a Shot on Goal Ashley Pietrzak	How Do Different Flavors of Gum Affect Test Performance? Taylor Seaman
Which Different Samples of Plant Material Can Produce the Most Energy? Alex Plutchak	The Rayleigh-Taylor Instability: Studying the Accidental Painting Technique Using Paints Loranika Sharma
Vaccines and The Anti-Vaccination Movement Kat Polowczyk	Finding Safer Mascara Regan Sherman, Vian Ozic
The Effect of Technology on Public Outreach and Knowledge Consumption Across the Disciplines Michaela Moncus	The Effect of Water Volume on Bottle Rocket Altitude. Jack Gordley, Rei Silva
The Effect of Plant Type on the Separation of Plant Pigments Amanda Ramirez, Sapphire Stokes	The Effect of Positivity and Negativity on the Human Brain and Body Haleigh Simonis
The Human Mind and Cooperation Jake Rasmussen	All Dried Up or Too Hot To Handle? Michael Smith
Online JavaScript Tutorials: Literature Review Killian Reddy	Ecosystem Evolution in the British Virgin Islands Renee Spillane

Session B Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>The Connection Between the Brain and Music</i> Mackenzie Burke	158/3:30
<i>The Effect of Reading/ Watching Television on Imagination:</i> Sean Diment	159/3:30
<i>How Winglets Improve the Aerodynamics and Cost Effectiveness of Airplanes:</i> Jack LeRette	Auditorium/3:40
<i>Light Pollution in the Everyday World:</i> Emma Rafferty	154/3:40
<i>Teenagers' Knowledge of Current Events—a statistical analysis:</i> Matthew Marois	155/3:40
<i>Screw Propelled Locomotion:</i> Joshua Harden	156/3:40
<i>Everyday Energy Efficiency—energy supplements:</i> Josh Panganiban	157/3:40
<i>GPS Technology in the OR—Knee Replacement Road Map:</i> Ashley Burris	158/3:40
<i>Sweet Rockets—Burn-Time and Fuel-to-Oxidizer Ratio for Sugar Rockets:</i> Drew Park	159/3:40

Session B Films: Schola

Please don't enter film screening spaces with closed doors.

A closed door means a video in session.

<i>The Effect of Different Types of Adhesives and Backings on Tape Strength:</i> Jeremy Alexander	2:50-3:00
<i>Make it Rain: A Study of Alertness:</i> Katrina Buensuceso, Amanda Hall	3:00-3:10
<i>The Effect of Thermal Energy on Plastics:</i> Alana Allbritton	3:10-3:20
<i>Lip Gloss, A Sticky Situation: A Study of Cosmetic Chemistry:</i> Colbie Burley	3:20-3:30
<i>The Effect of Heartworms on Household Mammals:</i> Jordan Brown	3:30-3:40
<i>The Effect of Nutrition on the Brain:</i> Katie Knapp	3:40-3:50

Session B Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>Intro to Music and the Brain:</i> Kaitlin Vilorio	Auditorium/2:50
<i>Mind Over Coffee</i> Rutivi Patel, Jake Brown	154/2:50
<i>Heart Rate Variants in the Experience Level of Athletes:</i> Denisa Lutz	155/2:50
<i>Mitosis in the Nervous System:</i> Kyle Frederick	156/2:50
<i>The Science of Distratction:</i> Jason Chung, Alex Harris	157/2:50
<i>The Reliability of Eyewitness Testimonies:</i> Ciara Barrogo, Kritika Ghimire	158/2:50
<i>The Undefined Female Mind: The Effect One's Father-Figure has on Female Partner Choice:</i> Justin Costello, Raza Bkhari	159/2:50

Session B Presentations

Please don't enter presentation rooms with closed doors.

<i>The Effect of Flavonoids in Cocoa on Cognitive Functions:</i>	Auditorium/3:00
<i>Rorschach's Inkblot Test on Opposite Genders:</i> Jullian Peji Tianyu Wang	154/3:00
<i>Respiration Rate Variation Between Martial Artist Skill Levels:</i> Romeo Manozza	155/3:00
<i>The Effect of Gender on Short Term Memory</i>	156/3:00
<i>A Study of Aerospace Engineering:</i>	157/3:00
<i>The Significance of the Relationship Between Working Memory and</i>	158/3:00
<i>Who Can You Trust? An Intro into the Credibility of Memory:</i> Maggie Dawson	159/3:00
<i>Improving Ocean Lakes through Sustainable Design:</i> Cassandra Howard	Auditorium/3:10
<i>Effect of Gender on Bacteria Growth from Feet:</i> Krissy Pieczynski	154/3:10
<i>Time Perception: How Activities Can Alter the Sense of Time:</i> Alyssa Manuel, Jelica Calderon	155/3:10
<i>An Exploration on Non-Planar Wing Systems</i> Monika P. Getsova	156/3:10
<i>Exploring Research into Back Bay Conservation and Sustainability</i> Joe Miguez	157/3:10
<i>The Simple Science of Rocketry: Justin Bettis</i>	158/3:10

Session B Presentations

Please don't enter presentation rooms with closed doors.

A closed door means a presentation in session.

<i>Do You Know What You're Eating?</i> Amanda Deans	159/3:10
<i>The Effect of Plasmid Integration on Effective Transformation of E. coli:</i> William Gervais	Auditorium/3:20
<i>"Green" Cleaners Versus Commercial Cleaners:</i> Sydney Ploeger, Anastasia Chase	154/3:20
<i>Drinks for Diabetics:</i> Lauren Manuel	155/3:20
<i>The Effect of Various Hiccup Solutions on Hiccup Prevalence:</i> William Greer	156/3:20
<i>Temperature's Effectiveness on Crickets' Chirps:</i> Riley Johnson	157/3:20
<i>You're "Kid"ding: A Look Into Pediatrics:</i> Lauren Adams	158/3:20
<i>The Applications of Colorimetric Detection:</i> Robert Delaney	159/3:20
<i>Exploring the Field of Cardiology:</i> Amanda Peroe	Auditorium/3:30
<i>The Effect of Cell Phone Conversation Complexity on Visual Scanning:</i> Dylan Puco	154/3:30
<i>The Effect of Vegetative Patterns and Depth on Soil pH:</i> Alice Mao	155/3:30
<i>An Engineering Fusion: The Field of Mechatronics:</i> David Ham	156/3:30
<i>Shark Conservation: Jordan Moore</i>	157/3:30