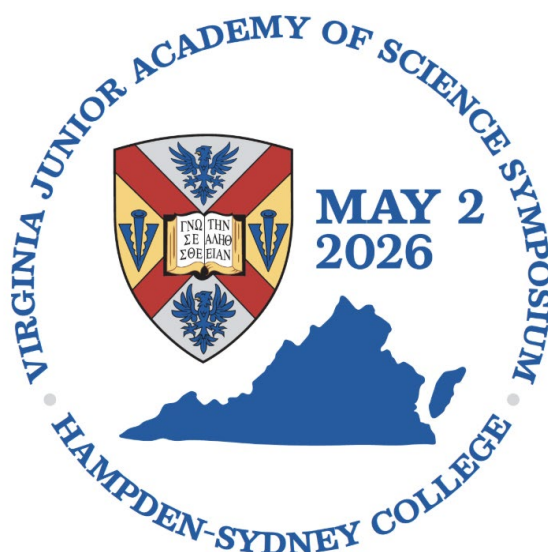


Virginia Junior Academy of Science Research Symposium and 82nd Annual Meeting

May 2, 2026 - General Session/Jeffers Lecture

May 2, 2026 - Student Presentations

May 18, 2026 - Awards Ceremony



A Program of The Virginia Academy of Science

In-person Research Symposium, hosted by Hampden-Sydney College

Program is available on the VJAS website www.vjas.org

The Virginia Academy of Science

The Virginia Academy of Science (VAS) is the fifth largest state, region, or city academy of science in the U.S.; it was founded in 1923 to promote the civic, academic, agricultural, industrial, and commercial welfare of the people of Virginia. Exemplary programs have included Flora of Richmond and Vicinity, Published, 1930, the first comprehensive multidisciplinary studies of the James River Basin and the Great Dismal Swamp, volunteer research assistance to Virginia in the instance of the Kepone pollution disaster, and leadership in establishing the Science Museum of Virginia.

Fall Undergraduate Research Meeting:

The focus of this meeting is support of undergraduate student research. Specific details about the 2026 Fall Undergraduate Research Meeting, including the location and date will be made available on the VAS website (www.vacadsci.org) during the summer.

The Virginia Junior Academy of Science

VJAS is a national model for the new and renewing state junior academies and has been ranked among the top three in the nation for over two decades. Through VJAS and other programs, VAS annually reaches over 40,000 Virginia middle and high school students. Hundreds of volunteers make it possible for Virginia secondary students to experience these activities.

Hampden-Sydney College

The Virginia Academy of Science and the Virginia Junior Academy of Science express their sincere appreciation to the College of Hampden-Sydney for the generous support in providing symposium meeting rooms and services.

The College of William & Mary

The Virginia Academy of Science and the Virginia Junior Academy of Science express their sincere appreciation to The College of William & Mary for the generous support in providing web conferencing meeting rooms and services.

A Tradition of Excellence, A Commitment to Action

Contributors and Supporters

The Virginia Academy of Science and The Virginia Junior Academy of Science notes with appreciation the contribution and support of hundreds of individuals and dozens of organizations to the success of this year's Research Symposium and Annual Meeting.

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VJAS Committee Chair's Welcome

Dear Virginia Junior Academy of Science participants,

On behalf of the Virginia Junior Academy of Science Team and Committee, I would like to extend the warmest welcome to each and every one to the 85th Virginia Junior Academy of Science (VJAS) Annual Meeting and Research Symposium.

First, I would like to congratulate our student finalists. Despite the challenges, each one of you strived to conduct the best possible scientific research experiments in a variety of different settings and circumstances. Your valiant and resilient efforts shine through brightly – as a VJAS student finalist, your research papers have been read thoroughly and were selected by a rigorous panel of evaluators from across the state. This is a great accomplishment, and you should be proud of your research and academic success!

As we commence our in-person Annual Meeting and Research Symposium, I would like to share some thoughts with you. This past year, more so than any others, we have seen a rise in the stake – the importance – of the role science and research plays in our society. Scientists from all corners of the Earth joined together and responded to meet a daunting challenge. We have acted as one to address a global crisis that discriminates against none.

This atmosphere of cooperation and working together as collaborators and not necessarily viewing each other as competitors all the time, is something we scientists need to continue promoting. Yes, there is a balance – but our society will greatly benefit, and the frontiers of knowledge further breached into new territories faster if we work together more often. Therefore, I would encourage you to view each other during this virtual Research Symposium as future collaborators and colleagues, partners of the future, rather than as competitors.

As you move onward into your collegiate and professional careers, I understand that some of you will continue the path of a scientist, but just as many will choose different routes in medicine, teaching, politics, and so on. What we hope to convey at this year's Annual Meeting is that no matter which career route you choose, your fundamental understanding of science and how research is conducted to bring progress, will be invaluable and become a lifelong foundation. And remember, you can always be an advocate in promoting science and research, wherever you are.

In closing, I hope the 85th VJAS virtual Annual Meeting and Research Symposium is an enriching and engaging experience for everyone. Once again, welcome and congratulations on your accomplishments.

Sincerely,

Susan P Booth

Director, VJAS Committee

Schedule of Events

Virginia Junior Academy of Science — 2026 Research Symposium

Date / Time	Event	Location
Sat May 2, 2026 7:30 AM-8:30 AM	Judge's Breakfast Meeting	Bortz Library
Sat May 2, 2026 9:00 AM – 5:00 PM	VJAS Student Paper Presentations	See schedule starting on Page 9
Sat May 2, 2026 Noon – 1:20 PM	VJAS Jeffers Memorial Lecture and lunch	Kirby Field House
Mon May 18, 2026 7:00 PM – 9:00 PM	VJAS Awards Ceremony	Live Zoom Webinar – to be posted on VJAS Home Page

George W. Jeffers Memorial Lecture

Combining Traditional Knowledge with Western Science

Community-Based Remote Sensing in Western Alaska

Want to see how science helps communities—right now?

What happens when we combine drones, satellites, and other tech with local knowledge? This talk shows how researchers, students, and Alaska Native communities team up to understand environmental change and protect cultural heritage in some of the most remote places on Earth.

3 Big Things You'll Take Away

1) Climate change you can measure

How remote sensing helps track environmental shifts and how climate change is affecting the land.

2) Tech that supports people in real life

How community-based approaches can assist with Search and Rescue operations.

3) Protecting culture with science + collaboration

How teams help protect important cultural sites like the 500-year-old Nunalleq village.

Meet the Speaker

Sean Gleason, Ph.D.



Elliott Associate Professor, Hampden-Sydney College

Co-founder & Head of Research & Development, Nalaquq, LLC (Alaska Native-owned technology startup in Quinhagak, Alaska)

Research focus: geospatial science, remote sensing, and community-based knowledge in Indigenous Arctic contexts.

If you're into...

STEM • Environmental science • GIS & mapping • Drones/UAVs • Climate • Anthropology • Community partnerships • Research careers ... **you'll like this talk**

53. Tennis Courts
54. Miller Field
55. Hellmuth-Gibson Field
56. Koston Field
57. Pavillion at Innapole Hole
Disc Golf Course
High Adventure Course
58. Kirby Field House
Basketball Offices and Lounge
Disc Arena
Lapport Pool
Tiger, Fitness Center
59. Lagoon Field



Middle School Presentation Schedule

Animal & Human Sciences (MS AH)

College Church 1

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Shah Abeer	<i>The Effect of Polyethylene Glycol (PEG) Concentration on Osmotic Water Movement Across a Semipermeable Membrane</i>
9:20–9:40 AM	Javalkar Sreecharan	<i>The Effect of Salt Concentration on Kidneys</i>
9:40–10:00 AM	Shrestha Annika	<i>Effect of Colored LED Lighting on Sleep Quality</i>
10:00–10:20 AM		
10:20–10:40 AM		Break
10:40–11:00 AM	Nepal Manan	<i>The Effect of Types of Common Urban Runoff Pollutants on the Health of Daphnia Magna</i>
11:00–11:20 AM	Bhatt Medha	<i>The Effect of Isopropyl Alcohol in Hand Sanitizer on its Efficacy in Delaying the Presence of Bacteria on the Hands</i>
11:20–11:40 AM	Gaddam Dhruv	<i>Effect of Caffeine on Heart rate of Ghost Shrimp</i>
11:40–12:00 PM	Heng Nicholas	<i>The Effect of Different Amounts of Salt on Brine Shrimp Hatch Rate</i>
12:00–1:20 PM		Jeffers Lecture & Lunch Break
1:40–2:00 PM	Ghobrial Iten	<i>The Effect of Color on the Perception of Flavor</i>
2:00–2:20 PM	Mahesh Umika	<i>The Effect of Different Types of Music on Cognitive Abilities in School Kids</i>

Chemical Science A (MS-CS)

College Church 2

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Sheth Vraj	<i>The Effect of Mild Chemicals on the Decomposition of Bamboo Straws</i>
9:20–9:40 AM	Kumar Shiven	<i>The Effect of Different Bases on Stabilizing the pH Levels in Water</i>
9:40–10:00 AM	Uprety Ipsa	<i>The Effect of Different SPF Values on the Level of UV Index Detected in the Sun</i>
10:00–10:20 AM	Nair Rukmini	<i>The Effect of Light Intensity on Color Retention in Oil Paint</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Shah Tani	<i>The Effect of Hair Oils with Different Fatty Acids on Peroxide Values</i>
11:00–11:20 AM	Gauri Varma Jayakrishnan	<i>The effect that different water pollutants have on the water's surface tension</i>
11:20–11:40 AM	Madurantakam Suveer	<i>The Effect of Rapid and Slow Gelation of Sodium Alginate on the Physical Properties and Dye Retention</i>
11:40–12:00 PM	Krosuri Siri	<i>The Effect of Tablet Composition on the Dissolution Rate Under Simulated Gastric Conditions</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	

Computational Biology (MS CB)

Bortz Library 218 — Merged with HS COM-A

Please convene by 8:55 AM for Announcements. COM-A will begin after CB.

Time	Student(s)	Paper Title
9:00–9:20 AM	Sharma Shaurya	<i>The Effect of Dopamine Exposure on Electroencephalogram Power Spectral Density</i>
9:20–9:40 AM	Reddigari Rithvik	<i>The effect of nectar Availability on Bee population Sustainability</i>
9:40–10:00 AM	Pradawong Millie	<i>How Feature Representation Affects MRI-Based Malignant Brain Tumor Classification: A Comparison of Manual and Transfer-Learned Deep Features</i>
10:00–10:20 AM	Nguyen Isabella	<i>Cracking the Code of Suicide Risk: Aptamer-Based Profiling of Heat Shock Protein 90 Beta (HSP90β) to Predict Suicide Vulnerability</i>
10:20–10:40 AM	Break	

Ecology & Earth Sciences (MS EE)

Pauley Science Center 200 — Merged with HS ENV-A

Please convene by 8:55 AM for Announcements. ENV-A will begin after EE concludes.

Time	Student(s)	Paper Title
9:00–9:20 AM	Kodari Saicharan	<i>The Effect of Erosion on Different Types of Ground Covers</i>
9:20–9:40 AM	Kirubaharan Vibha	<i>The Effect Of Different Surface Types On The Amount of Fertilizer Runoff Entering A Water Body, and Eutrophication</i>
9:40–10:00 AM	Aarya Badodariya	<i>The effect of various water pollutants on the speed at which water is entirely polluted</i>
10:00–10:20 AM	Uddin Esaam	<i>The Effect of the Type of Filter Material on Water Clarity</i>
10:20–10:40 AM	Muhammad Daniyal Ijaz	<i>The effect of Ultra Violet light on biodegradable Polylactic Acid plastics and conventional Polyethylene plastic</i>

Engineering & Technology (MS ET)

College Church 3

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Tetala Akshaj	<i>The Effect of Cooling Methods on Solar Panel Power Output</i>
9:20–9:40 AM	Datla Vihaan	<i>The Effect of Temperature on a Smartphones Battery Life</i>
9:40–10:00 AM	Atulasima Advait	<i>Integrating Piezoelectrics into Shoewear for Safe and Accessible Geolocation</i>
10:00–10:20 AM	Siddharth Rajan	<i>The Effect of Data Processing on Release of Heat on Computers and How to Counteract the Heat</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Dhuria Ayaan	<i>The effect of temperature variance on fan rotational velocity</i>
11:00–11:20 AM	Shah Aashvi	<i>The Effect of Different Surface Appearance on Heat Absorption</i>
11:20–11:40 AM	Sabharwal Guransh	<i>Sky Rover Taxi AI: Preventing Airport Ground Collisions Using Artificial Intelligence</i>
11:40–12:00 PM	Ahmad Hazeem	<i>The Effect of Temperature on the Elasticity of Silicone Polymers</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Shivkumar Taran	<i>The Effect of Different Launch Forces (Newtons) on a Drone's Flight Time</i>

Human Behavior (MS HB)

Pannill Commons 107 — Merged with HS PSY-A

Please convene by 8:55 AM for Announcements. PSY-A will begin when HB ends.

Time	Student(s)	Paper Title
9:00–9:20 AM	Strickland Lydia	<i>The Effect Of Branding On Food Preference</i>
9:20–9:40 AM	Westlake Griffin	<i>The Effect Of The Length Of Meditation Session On Heart Rate</i>
9:40–10:00 AM	Lin Chloe	<i>The Effect of Different Music Genres on Cognitive Function</i>
10:00–10:20 AM	Hayes Aaron	<i>The Effect of Short Video Content Scrolling Duration on Cognitive Memorization in Adolescents</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Lao Naomi	<i>The Effect of Emotional Tone of TV Advertising on Candidate Popularity</i>
11:20–11:40 AM	Ananya Ware	<i>Effect of Sugar on Student Memory</i>
11:40–12 PM		
12:00–1:20 PM	Jeffers Lecture & Lunch Break	

Mathematics and Patterns (MS MP)

Kirk 310 — Merged with HS MTM

Please convene by 8:55 AM for Announcements. MTM will begin when MP ends.

Time	Student(s)	Paper Title
9:00–9:20 AM	Sudhireddy Srihaas	<i>Comparative Performance Analysis of Investment Strategies Using Controlled Historical Backtesting</i>
9:20–9:40 AM	Arun Aradhana	<i>The Effect of Demographic Disclosure Granularity on Measurable Bias Amplification in ChatGPT's Business Advisory Outputting</i>

Microbiology (MS MB)

Morton Hall 112 — Merged with HS MCB

Please convene by 8:55 AM for Announcements. MCB-A will begin when MB ends.

Time	Student(s)	Paper Title
9:00–9:20 AM	Rodriguez Lorena	<i>How Effective are Different Hand Sanitizers?</i>
9:20–9:40 AM	Bhashyam Siddha	<i>Effect of Fruit Type on Imitated Bacterial Transfer to a Powder Surface in a 5-Second Contact Period</i>
9:40–10:00 AM	Sharma Yashna	<i>The Effect Of pH Level On Milk Fermentation Completion Process</i>
10:00–10:20 AM	Konatham Drithi	<i>The effect of varying salinity levels on Nannochloropsis phytoplankton's ability to produce dissolved oxygen and deposit it into a controlled environment</i>
10:20–10:40 AM	Shah Arham	<i>The Effect Of Preservation on Catalase Activity in Potatoes</i>
10:40–11:00 AM	Break	

Physical Science & Astronomy (MS PA)

Morton Hall 220 — Merged with HS PHY-A

Please convene by 8:55 AM for Announcements. PHY-A will begin when PA ends.

Time	Student(s)	Paper Title
9:00–9:20 AM	Fischer Eli	<i>The Effect of PSI on the Accuracy of a Soccer Ball</i>
9:20–9:40 AM	Gayapaka Anish	<i>Effects of Different Water Conditions on Soccer Ball Performance</i>
9:40–10:00 AM	Michael Hannah	<i>The Effect of Temperature on Magnet Strength</i>
10:00–10:20 AM	Weinrich Dylan	<i>Illuminating the IR Spectra: A Python-based Approach to Classifying Brown Dwarf Stars</i>
10:20–10:40 AM	Break	

Plant Science (MS PS)

College Church 4

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Hari Rishi	<i>The Effect of the Removal of External Light Cues on Plants' Circadian Rhythms</i>
9:20–9:40 AM	Choudhary Reyansh	<i>The Effect of pH on Plants</i>
9:40–10:00 AM	Mishra Shreyas	<i>The Effect of Musical Rhythm Patterns on Seed Germination</i>
10:00–10:20 AM	Das Sharanya	<i>The effect of Organic and Chemical fertilizers on the growth of Mint plants</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Manikandan Sadana	<i>The Effect of Natural Pesticides on Plant Growth and Physical Appearance</i>
11:00–11:20 AM	Sureshkumar Rheeya	<i>The Effect of Hydrogels on Plant Growth</i>
11:20–11:40 AM	He Colin	<i>The Effect of Sodium Nitrate on Carrot Seed Germination</i>
11:40–12:00 PM	Dheepthaa Devarajan Lakshman	<i>The Impact of Plant Types on the Accuracy of AI-Based Disease Detection</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Manikanta Ritu	<i>The Effect of Soil Salinity on The Bioelectrical Conductivity In Tomato Plants</i>
2:00–2:20 PM	Ahmad Sarmed	<i>The Effect of Salinity on the Catalase Activity of Hydrogen Peroxide-Stressed Potato Disks</i>

High School Presentation Schedule

Botany A (HS BOT-A)

Pauley Science Center 305

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Crosby Colleen	<i>The Effect of Different Colored Growth Lights on the Stem Height of Capsicum annuum</i>
9:20–9:40 AM	Martin Zach	<i>The Effect of Auxin and Cytokinin on Variegated Reversion in Tradescantia Under Varying Light Conditions</i>
9:40–10:00 AM	Alamirew Soliana	<i>The Effect of Coffee Grounds on Plant Development</i>
10:00–10:20 AM	Limon Crecerelle	<i>The Effect of Applying Varying Amounts of Citrus Peel to the Base of Epipremnum aureum on Epipremnum aureum Growth Over Time</i>
10:20–10:40 AM	Break	
10:40–11:00 AM		
11:00–11:20 AM	Pantelic Marina	<i>The Effect of Auxin and Cytokinin Ratio on Radish Growth</i>
11:20–11:40 AM	Belko Yehor / Long Samuel	<i>A Study of the Allelopathic Effect of Polyphenols on the Germination of Medicago sativa and Lepidium sativum</i>
11:40–12:00 PM	Burukunte Aarush	<i>The Effect of Caffeine Concentrations on Phaseolus vulgaris Growth</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Gavin	<i>To what extent do varying sound frequencies affect the overall growth of Brassica rapa?</i>
2:00–2:20 PM	Miage Wasi	<i>The Effect of Drought Combat Strategies on Plant Growth</i>
2:20–2:40 PM	Salama Abdelrhman	<i>The Effect of Various Household Greywaters on Raphanus sativus Growth</i>
2:40–3:00 PM	Basi Jaiveer	<i>The Effect of Premature Darkness and Delayed Nightfall on Adaptive Nyctinastic Movement in Phaseolus vulgaris</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Mishra Anshuman	<i>The Effect of Temperature in Electrical Signals on Phaseolus vulgaris</i>

Botany B (HS BOT-B)

Pauley 302

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Oden Paige	<i>The Effect of Organic Stimulants on Plant Health</i>
9:20–9:40 AM	Friedman Gabriel	<i>Comparing the Effects of Different Fertilizers on Glycine max Grown in Lunar Regolith</i>
9:40–10:00 AM	Hartso-Smith Joshua	<i>Comparing the Growth rate Between Aquaponics, Hydroponics, and Composting in a Home Environment</i>
10:00–10:20 AM	Jayakanthan Sravan	<i>The Effect of Anti-frost Solutions on Mass Loss of Spinach</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Almond Donald	<i>The Effect of Magnetic Fields on the Germination and Growth of Phaseolus Vulgaris</i>
11:00–11:20 AM	Obeng Lauren / Seyefe Ruth / Ahmad Sajeela	<i>Antioxidant-Mediated Recovery of Mitochondrial Function and Cell Viability in Hydrogen Peroxide-Stressed Nicotiana tabacum Callus Tissue</i>
11:20–11:40 AM	Polavarapu Sahasra	<i>The Effect of Various Spices on Radish Seed Germination Rates</i>
11:40–12:00 PM	Admassu Zoe	<i>Effect of Chemical and Natural Fertilizer on Plant Growth</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Tao Luke	<i>The Effect of Magnetized Water on the Growth of Phaseolus vulgaris</i>
2:00–2:20 PM	Howard Elaina	<i>The Allelopathic Tendencies of Wheat and Ryegrass</i>
2:20–2:40 PM	Nair Niharika	<i>The Effect of Rhizobium Inoculation on Bean Plant Growth in Saline-Stressed Soil</i>
2:40–3:00 PM	Hass Reed	<i>The effect of different levels of water intake on grass growth and health</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Bandi Tejashree	<i>The Effect of Homemade Fertilizers On Plant and Leaf Growth</i>

Chemistry A (HS CHM-A)

Pauley Science Center 405

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Stavella Julian	<i>The Effect Varying Brands of Deionization (DI) Resin have on the Efficiency of Salt Removal Through Filtration</i>
9:20–9:40 AM	Tejal Gogineni	<i>The Effect of Type of Milk (Whole, Coconut, Oat, Soy) on the Amount of Fat Found in Each Type</i>
9:40–10:00 AM	Stines Shelby	<i>The Effect of Reducing the Amount of Sugar Vs. Reducing the Amount of Fat Vs. Increasing the Amount of Protein in a Chocolate Chip Cookie Recipe on the Resultant Height and Diameter of the Cookies</i>
10:00–10:20 AM	Close Olivia	<i>Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in Honey Produced in Southwest Virginia Apiaries</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Saperstein Margaret	<i>The Effect of Different Rapidly Composed, Biodegradable Hydrogel Formulations on Adhesion, Fire Retardation, and Viscosity</i>
11:00–11:20 AM	Mamidala Aditya	<i>The Effect of Glycerol Concentration on the Dissolution Time of Gelatin Sheets in Simulated Gastric Fluid</i>
11:20–11:40 AM	Bodduna Yashwanth	<i>The Effect of Amperage on Corrosion Resistance of Copper Electroplated onto Steel</i>
11:40–12:00 PM	Saravanan Barathi	<i>Development of Anthocyanin-Based Colorimetric pH Sensor Films for Intelligent Monitoring of Shrimp Spoilage</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Prabhanand Lalantika	<i>The Effect of Different UV Exposed Bioplastics on Water Absorption</i>
2:00–2:20 PM	Jaddu Sidh	<i>Increasing Surface Flashover Inception Voltage Using a Polymer Nanocomposite for Power Systems in Electric and Hybrid-Electric Aircraft</i>
2:20–2:40 PM	Kannan Sahana	<i>Effect of Temperature on Duration of Glow from Luminol</i>
2:40–3:00 PM	Khandelwal Vihaan	<i>The Effect of Different Rust-Inhibiting Coatings on Iron Oxidation</i>
3:00–3:20 PM	Break	

Chemistry B (HS CHM-B)

Pauley Science Center 407

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Okojie Paul	<i>The Effect of Ultrasonic Frequency on Dye Degradation</i>
9:20–9:40 AM	Charboneau Henri	<i>The Effects of Fresh vs Frozen Blueberries on the Change in Height, the Density, and the Color of a Blueberry-Lemon Cake</i>
9:40–10:00 AM	Sutten William	<i>Pollution driven oxygen depletion in the Chesapeake Bay</i>
10:00–10:20 AM	Addison Vest	<i>The Effect of Color on the Bleed-Through Rate of Highlighters</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Collier Lorelei	<i>Comparing Protein Content in Gluten-Free Flours</i>
11:00–11:20 AM	Sagar Rohan	<i>Evaluating Biofuels and Their Components Through Energy Output and Carbon Dioxide Emissions</i>
11:20–11:40 AM	Davenport Allison / Polineni Anika / Organ Audrey	<i>Cyclic Tensile Testing on Self-Healing Hydrogels for Biomedical Applications</i>
11:40–12:00 PM	Wiegard Brynne	<i>Nanoparticles as a Technique for the Removal of Estradiol from Water</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Swain Sanjeevan	<i>The Effect of UV-C Light on The Degradation of Vitamin C in Orange Juice</i>
2:00–2:20 PM	Wilson Alex	<i>The Effect of the pH of Daniell Cell's Solution on Its Voltage Production</i>
2:20–2:40 PM	Manoj Navin	<i>The Impact of Chemical Cleaners on Stain Removal Efficiency</i>
2:40–3:00 PM	Anand Balaji Amogha	<i>The Effect of Natural Oils on UV Protection Efficiency</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Alapilla Deepika	<i>Comparative Impact of Natural and Synthetic Developers on Dermatoglyphic Count</i>

Computational Biology A (HS COM-A)

Bortz Library 218

Please convene by 8:55 AM for Announcements. COM-A begins after CB.

Time	Student(s)	Paper Title
10:40–11:00 AM	Sutton Wyatt	<i>The Impact of Injuries on Premier League Athlete Performance</i>
11:00–11:20 AM	Li Jonathan	<i>Early Sepsis Detection with AI Models: Predicting Risk and Guiding Clinical Interventions</i>
11:20–11:40 AM	Kalagi Shrihari	<i>Computational Identification of Potential Small-Molecule Ligands Targeting KRAS-G12D</i>
11:40–12:00 PM	Madan Aryan	<i>Transforming Early Lung Cancer Detection Through a Novel Deep Learning Software for Automated Lung Nodule Detection and Segmentation in Thoracic CT Scans</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Jora Macrea Ian	<i>The Effects of Electromechanical Uncouplers Blebbistatin and BDM on Cardiomyocyte Conduction Velocity</i>
2:00–2:20 PM	Hazari Jasmin	<i>The Effect of Varying Real-Time Data on the Accuracy of Wildfire Prediction and Risk Assessment</i>
2:20–2:40 PM	Vishnu Vedha / Jafar Aysha / Rosas Jayson	<i>The Effect of Targeted Atorvastatin Delivery on the Proliferation of Endometriosis</i>
2:40–3:00 PM	Behera Krish	<i>EpiSight: A Graph Convolutional Network for Epileptogenic Zone Localization in Drug-Resistant Epilepsy Using Phase-Amplitude Coupling</i>
3:00–3:20 PM	Break	
3:40–4:00 PM	Battula Rohan	<i>Analysis of MCT2 as a Selective Therapeutic Target in Cancer Metabolism</i>
4:00–4:20 PM	Yu Angie	<i>Integrative Proteome-Wide Association Analysis Reveals Genetic Architecture and Therapeutic Insights Across Dental Traits</i>
4:20–4:40 PM	Anteneh Salam	<i>The Effect of Ancestry on the Accuracy of Polygenic Risk Scores for Type 2 Diabetes</i>

Computational Biology B (HS COM-B)

Bortz Library 219

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Sundarrajan Pranav	<i>Combating Alzheimer's Disease via Immunotherapy: In-Silico Design of Novel CAR scFv Proteins for Targeted Inhibition of RAGE-Mediated Microglial Activation</i>
9:20–9:40 AM	Karim Ryan	<i>Comparative Generalizability of Pre-trained Automated Prostate MRI Segmentation Models</i>
9:40–10:00 AM	Arun Kumar Soumya Akash	<i>Investigating the Potential: Can Artificial Intelligence Strengthen Cybersecurity Systems Through Enhanced Threat Detection and Predictive Analytics?</i>
10:00–10:20 AM	Sibley Kayla	<i>The Effect of Different Computer Algorithms on Performance in the Iterated Prisoner's Dilemma</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Srivastava Samyak	<i>Cross-validated Late Integration of Multi-Omics Convergence: A Stability-Constrained Computational Framework for Decoding Mechanistic Immune Pathways in HIV-1 Elite Controllers</i>
11:00–11:20 AM	Manikandan Saranya	<i>Breast Cancer Progression on miRNA Frequency and Diagnostic Model Detection</i>
11:20–11:40 AM	Hu Brandon	<i>Investigating Meteorological Drivers in Models of Aedes Albopictus Population Dynamics</i>
11:40–12:00 PM	Shirodkar Vihaan	<i>Using a Machine Learning Model to Examine the Effects of Different Factors on Alzheimer's Disease Diagnosis Accuracy</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Oza Naitik / Oza Nisarg	<i>A Novel Multi-Conformation Graph-Based AI Model for Accelerated Discovery of Anti-Neuroinflammatory NLRP3 Inhibitors in Parkinson's Disease</i>
2:00–2:20 PM	Williams Lee	<i>Analysis of Bias in AI Facial Recognition Systems by Age and Gender</i>
2:20–3:00 PM	Guganathan Ilakkiya	<i>CAR T-Cell Targeting of Prominin-1 to Inhibit Glioblastoma Multiforme Proliferation</i>
3:00–3:20 PM	Saxena Aarav	<i>Evaluation of Deep-Learning Based Multimodal Analysis of Handwritten Images, Pen-Based Time-Series Signals, and Encoded Metadata for Parkinson's Disease Classification</i>
3:20–3:40 PM	Break	
3:40–4:00 PM	Madurantakam Shravan	<i>Evaluating the Interactions of Various Kinase Inhibitors with FMS-like Tyrosine Kinase 3</i>

Engineering A (HS EGR-A)

Brown Student Center 203

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Benavides Ruiz Daniela	<i>The Effect of the Camber of Drone Propellers on the Maximum Payload Lifted to a Specified Height by the Drone</i>
9:20–9:40 AM	Wood Betsy	<i>The Effects of Polyethylene Terephthalate in Concrete Mixtures</i>
9:40–10:00 AM	Bakker Thomas	<i>The Effect of Varying Natural Rubber Content on the Mechanical Properties of Rubber Blends</i>
10:00–10:20 AM	Anthony Christopher	<i>Evaluating Thermochromic Liquid Crystals for Temperature Monitoring: Color Response and Durability Testing</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Dixon Daniel	<i>The Effects of Large Nominal Aggregates on the Structural Integrity of Asphalt Pavements</i>
11:00–11:20 AM	Pratt Lydia	<i>The Effects of Nickel Content and Quenching Rate on the Mechanical Properties and Microstructure of ASTM A588 Weathering Steel</i>
11:20–11:40 AM	Yu Ian	<i>Performance Analysis of a 5 Bar linkage pentapod for Martian locomotion</i>
11:40–12:00 PM	Grove Mateja	<i>Harmonic-Based Estimation of Coil Misalignment in Low-Power Wireless Power Transfer Systems</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Cohen Gabriel	<i>A LiDAR Haptic Interface to Assist With Blind and Low Vision Navigation</i>
2:00–2:20 PM	Jansen Erin	<i>Sustainable Leather Alternatives: The Effect of Zinc Oxide and Microcrystalline Cellulose on Mechanical Properties and UV-Blocking of Sodium Alginate- and Gelatin-Based Biomaterials</i>
2:20–3:00 PM	Adidam Vaishnavi	<i>Text Based Steganography using Prepositional Encoding with LLMs</i>
3:00–3:20 PM	Sogutlu Onur	<i>Optimization of 3D-Printed Gear Designs for Durability</i>

Engineering B (HS EGR-B)

Johns 207

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Cailles Jacob	<i>The Effect of Applied Forces on the Energy Harvested from Piezo-Electric Materials</i>
9:40–10:00 AM	Lovelace Nolan	<i>Simulation-Based Evaluation of Powered-Landing Control Strategies Under Wind Disturbances</i>
10:00–10:20 AM	Holman Heather	<i>Best Solution for the Back Window Against Blinding Headlights</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Borum Brendan	<i>An Investigation of Aerodynamic Performance Across Three Wing Shapes Using CFD Simulation</i>
11:00–11:20 AM	Moyer Mia	<i>Does Seaplane Aluminum Withstand Salt Water Corrosion Effectively</i>
11:20–11:40 AM	Maria Benavides Ruiz	<i>The Effect of Altering the 3D Printed Surface Texture of an Airfoil, Tested in a Subsonic Wind Tunnel, on the Resultant Drag Force of the Airfoil</i>
11:40–12:00 PM	Jackson Joanna	<i>Screwable Modular Components for the Pylon of Pediatric Leg Prosthetics</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Lokar Jacob	<i>The Relationship Between Tread Geometry and Friction in 3D-Printed Thermoplastic Polyurethane (TPU)</i>
2:00–2:20 PM	Abdel Motaleb Mohamed	<i>How do different mycelium species and substrate formulations influence soil erodibility and strength?</i>
2:20–2:40 PM	Foutz Vivian	<i>Design and Evaluation of a Safety-constrained AI System to Enhance Adolescent Executive Functioning</i>
2:40–3:00 PM	Medavarapu Svaran	<i>A Spatiotemporal Transformer Architecture for Long-Term Post-Wildfire Vegetation Recovery Forecasting</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Garg Arjun	<i>StrokeShield: A Noninvasive Thermoelectric Neck Patch for Targeted Carotid Artery Neuroprotection via Hypothermia in Acute Ischemic Stroke</i>

Engineering C (HS EGR-C)

Johns Auditorium

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Milhorn Jeremiah	<i>The Effect of Different Track Configurations (Track Radii and Bank Angles) on Biomechanical Asymmetry and its Impact on Injury</i>
9:20–9:40 AM	Josthin Mendez Merlo	<i>Forecasting Particulate Matter: An IoT and Machine Learning Approach</i>
9:40–10:00 AM	Okes Logan	<i>What is the most efficient power source with minimal pollution and best production capacity?</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Sisson Spencer	<i>Using an Arduino Microcontroller and Repurposed Remote Control Car to Develop a Pacing Device for Track Athletes</i>
11:00–11:20 AM	Sheoran Ishaan / Barabash Yan	<i>Optimizing the Thrust of a Miniature Ionic Propulsion Device</i>
11:20–11:40 AM	Nathan Kim	<i>Microstructure-Resolved Design of Porous Dielectric Membranes for Ultrathin Capacitive In-Stent Intracranial Pressure Sensors</i>
11:40–12:00 PM	Neuman Hayden	<i>The Effect of Heat Sink Material on Heat Dissipation Efficiency</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Desta Tobel / Sayedi Sulaiman / Faqiri Sahel	<i>A Voice for the Voiceless: Real-Time ASL-to-Speech Translation via Landmark Coordinate Classification</i>
2:00–2:20 PM	Patil Nikhil / Rahman Mahib / Melaku Eliab	<i>Developing a Low-cost Machine Learning-Based Early Earthquake Detection System</i>
2:20–2:40 PM	Wanchoo Devin / Obeng Michael / Ben Chouikha Mazen	<i>AEROCOOL: Aerospike Engine Research On COOLing through Biomimicry</i>
2:40–3:00 PM	Koparde Kaeya	<i>The Effect of Environmental Conditions on WiFi Signal Strength</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Fakunle Jordan	<i>Development of Hydrogel to Replicate the Mechanical Properties of Cardiac Tissue</i>
3:40–4:00 PM	Patel Riya / Rao Jacob	<i>A Comparison Study of Porosity, Grip, and Tensile Strength of Various Filaments for Potential Use in 3D Printed Prosthetics</i>

Environmental & Earth Science A (HS ENV-A)

Pauley Science Center 200 — ENV-A begins after EE

Time	Student(s)	Paper Title
10:40–11:00 AM	Pham Abby / Khan Anusha / Nkhoma Mlinda	<i>From Trash to Treasure; Repurposing Silk Sericin into a Durable Cross-Tissue Healing Biomaterial</i>
11:00–11:20 AM	Dove Autumn	<i>The Power of the King: How King Tides Effect Nutrients and Bacteria Levels Along the Coast</i>
11:20–11:40 AM	Headley Sean	<i>The Impact of Solar Farm Distance on Zinc Concentrations in Private and Public Water Supplies</i>
11:40–12:00 PM	Cooke Olivia	<i>Comparative Study of Catch Efficiency and Fouling Accumulation Between Galvanized and Vinyl-Coated Crab Traps</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Nguyen Rebecca	<i>A Comparison of Phragmites Reeds and Cordgrass Reeds as Nesting Material for Solitary Bees</i>
2:00–2:20 PM	Wallace Chase	<i>A Study of Coastal Flooding Events in Virginia</i>
2:20–2:40 PM	Abid Safwan / James Kim	<i>Design and Performance Analysis of Low-Cost Lead Filtration Systems</i>
2:40–3:00 PM	Chari Aneesha	<i>The Effect of Magnetism on the Phytoextraction of Lemna minor</i>
3:00–3:20 PM	Break	
3:40–4:00 PM	Bansal Reya	<i>The Effect of Biochar Concentrations on UVB Blocking Efficacy</i>
4:00–4:20 PM	Pradeep Dyuti	<i>The Effect of Ozone Exposure on Moisture Loss of Skin</i>

Environmental & Earth Science B (HS ENV-B)

Pauley Science Center 201

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Purcell Jack	<i>Comparative Evaluation of Household Filtration Materials for Emergency Water Treatment: Turbidity Reduction, Efficiency, and Practical Application</i>
9:20–9:40 AM	Blair Julie	<i>Evaluating the Phytoremediation Process of Elodea and Excess Iron in Fresh Water Systems</i>
9:40–10:00 AM	Baxter Caitlyn	<i>PFAS Levels in Virginia Surface Water: Location, EPA Regulations, and Testing Agency Comparisons</i>
10:00–10:20 AM	Break	
10:20–10:40 AM	Coghill Madison	<i>The Effect of mycorrhizae on Glycine max Drought Avoidance</i>
10:40–11:00 AM	Sterling Hudgins	<i>Examining Cooling Effectiveness and Aesthetic Value of Vertical Greenery Systems</i>
11:00–11:20 AM	Stahl Avery	<i>A Survey of the Copepod Population in Urbanna Creek During Summer of 2025</i>
11:20–11:40 AM	Ward Ella	<i>Build, Code, Deploy: Using a DIY Ultrasonic Water Level Sensor for High School Citizen Science</i>
11:40–12:00 PM	Johnson Logan	<i>The Effect of Atmospheric Conditions and Habitat Type on Ruby Throated Hummingbird (<i>Archilochus colubris</i>) Feeding Frequency</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
2:00–2:20 PM	Das Subhramsu	<i>The Effect of Geographical Location on Near-Future Earthquake Frequency</i>
2:20–2:40 PM	Gutta Jeevan	<i>The Effect of Different Aquatic Plant Species on Phosphorus Removal</i>
2:40–3:00 PM	Break	
3:00–3:20 PM	Beavers Claire	<i>The Effect of Fountains on Lake Oxygenation</i>
3:20–3:40 PM	Khan Luqmaan	<i>The Effect of Climate Variability on Malaria Prediction in Nigeria</i>
3:40–4:00 PM	Patel Dhilan	<i>The Effect of Different Soap Types on Oily Feathers</i>

Environmental & Earth Science C (HS ENV-C)

DuPont room (Bortz 200)

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Gammill Esther	<i>Halophyte Intercropping for Saline Agriculture</i>
9:20–9:40 AM	Aarya Patel	<i>The Effect of Types of Plants in a Room, When Volatile Organic Compounds (VOC) Are Released, on the Amount of VOC Present in the Room, Over Time</i>
9:40–10:00 AM	Michael Naod	<i>The Effect of Microplastic Concentration on the Hatching Success of Brine Shrimp</i>
10:00–10:20 AM	Cordova Layla	<i>Impacts Due to Ghost Crab Pots in Chesapeake Bay Shallow Water Ecosystems</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Keelson Samuel	<i>The Effect of Increasing Salinity on the Growth and Germination Rate of Swamp Milkweed (Asclepias Incarnata)</i>
11:00–11:20 AM	Tyrrell Shane	<i>The Effect of Interspecific Competition Between Green Algae (Chlorella vulgaris) and Cyanobacteria (C. anabaena) Under Eutrophic Conditions</i>
11:20–11:40 AM	Ford Ryan	<i>The Effect of Boating Frequency on the Abundance of Aquatic Wildlife in Shallow Waters</i>
11:40–12:00 PM	Rayappa Tejusswin	<i>The effect of Bio-degradable Fertilizer Gels on Runoff</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Tao-Lin Milo	<i>Investigating the Effect of the Number of Predictor Locations and Predictor Location Concentration on LSTM Precipitation Dry/Wet Hour Classification</i>
2:00–2:20 PM	Gupta Arjun	<i>Eco-Friendly Bioplastics Made With Organic Sources</i>
2:20–2:40 PM	Manjunatha Ruthvik	<i>Comparing Carbon Sequestration in Bryophytes and Microalgae Under Light Intensities using pH and Machine-Learning-Based Rate Modeling</i>
2:40–3:00 PM	Boak Grace	<i>Assessing Negative Impact of Microplastics on Root Fractals and Shoot Length of Mentha Spicata</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Singh Vedant	<i>The Effect of Fertilizer Element on Amount of Dissolved Oxygen</i>
3:40–4:00 PM	Guduru Aarushi	<i>The Effect of Phytoremediator Plants on Motor Oil Spills in Fresh Water</i>

Environmental & Earth Science D (HS ENV-D)

Pauley Science Center 223

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Nayak Aarav	<i>Analyzing Different Water Sources on Microplastic Count</i>
9:20–9:40 AM	Mays Caitlin	<i>Population Responses of Navicula sp. to Sodium Hypochlorite Exposure</i>
9:40–10:00 AM	Kuk Wren	<i>The Effects of L-Ascorbic Acid on the Heat Tolerance of Hydra viridissima</i>
10:00–10:20 AM	Burford Layla	<i>The Ultraviolence of Ultraviolet Light: The Physiologically Compromising Effects of UV-B on Arabidopsis thaliana</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Fitzgerald Genevieve	<i>Oil Absorbance Rates of Natural and Synthetic Absorbants</i>
11:00–11:20 AM	Saison Georges	<i>How might Forest Clear-Cutting and Tree Buffer Width affect the Variability of Vernal Pools?</i>
11:40–12:00 PM	Holland Lucas	<i>Modeling Spatial Temperature Structure Using Generalized Additive Models and Local Indicators of Spatial Association</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Hartke Indira	<i>Green Algae and Its Role in Promoting Ecological Balance</i>
2:00–2:20 PM	Amna Abdelbagi / Clara Amundson	<i>Assessing Soil Microbial Response to Various Fertilizer Treatments</i>
2:20–2:40 PM	Talluri Daksha	<i>The Effect of Microplastic Concentration on Algal Growth Rate in Freshwater Ecosystems</i>
2:40–3:00 PM	Webb Gabriella	<i>Exploring the Effect of Changes in pH on Pyrocystis Fusiformis</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Rajagopal Sagunthala	<i>The Effect of CO₂ Reducing Paint on the Reduction of CO₂</i>
3:40–4:00 PM	Ho Elina	<i>The Effect of pH on Lemna minor Methylene Blue Absorption</i>

Mathematics, Theory & Modeling (HS MTM)

Kirk 310 AM / 311 PM — MTM begins after MP

Time	Student(s)	Paper Title
10:20–10:40 AM	Johnson Natalie	<i>DubStep: An Algorithm for Dubins' Path Planning</i>
10:40–11:00 AM	Li Adelaide	<i>Long-Term Sustainability of a Wealth Tax Base Under Liquidity Constraints: An Agent-Based Modeling Approach</i>
11:00–11:20 AM	Break	
11:20–11:40 AM	Balasubramanian Rishvanth	<i>Bounding the Number of Critical Points for a Potential Function with 3 charges</i>
11:40–12:00 PM	Butler Philip	<i>The Game of Overfishing in Chesapeake Bay</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Shetty Saharsh	<i>The Effect of Receptors on their binding energy with BiTE</i>
2:00–2:20 PM	Madaan Arjun	<i>The Relationship Between the Nature of the Primality of Natural Numbers on Collatz Stopping Times</i>
2:20–2:40 PM	Owen David	<i>A Comparative Analysis of ChatGPT, Gemini, and Meta AI in Mathematical Problem Solving: Accuracy and Response Efficiency</i>

Medicine & Health A (HS MDH-A)

Pauley Science Center 104

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Dhingra Anusha	<i>The Effect of Natural Remedies on Planaria Regeneration</i>
9:20–9:40 AM	Culberson Giana / Izumi Coco / Yoo Alyssa	<i>When Your Gut Becomes a Brewery: Proving the Efficiency of Preventative Measures for Auto-Brewery Syndrome</i>
9:40–10:00 AM	Syed Akbar	<i>The Effect of Gut Microbiota on Autism-Like Behaviors in <i>Drosophila melanogaster</i></i>
10:00–10:20 AM	Kumar Devansh	<i>A Novel Type 3c Diabetes Biomarker: Uncovering Islet Amyloid Polypeptide Aggregation in Chronic Pancreatitis</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Bubulac Stefan	<i>The Effect of Toothpaste pH and Fluoride Content on Short-Term Acid Protection of Eggshell as an Enamel Substitute</i>
11:20–11:40 AM	Hill Gracie	<i>Sirens, Ear Protection and Firefighters Hearing</i>
11:40–12:00 PM	Stevens Mercedes	<i>The Effect of Music Genre on Human Heart Rate, Blood Pressure, and Stress and Anxiety Levels in a Music Therapy Setting</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Orem Keegan	<i>The Effect of Terrain on Cross Country Running Times and Biomechanics</i>
2:00–2:20 PM	Ghimire Sambridha	<i>Predicting Post-Surgical Infection Risk Using Interpretable Machine Learning</i>
2:20–2:40 PM	Li Jerry	<i>Curcumin suppresses HNSCC tumorigenesis through directly targeting FOSL1/JUN</i>
2:40–3:00 PM	Amin Vihani	<i>The Effect of Different Types of Sunscreen on UV Protection</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Zunaira Khan	<i>Lectin Based Analysis of Pancreatic Islet-Surface Integrity in Chronic Pancreatitis</i>
3:40–4:00 PM	Uppalapati Kavya	<i>Effect of Synthetic Biopolymer Membranes for Glomerular Filtration</i>
4:00–4:20 PM	Tuteja Hargun	<i>The Effect of Natural Compounds on Glucose Absorption in a Stimulated Digestive System</i>
4:20–4:40 PM	Soin Avi	<i>Effects of Different Levels of Processed Foods on Mealworm Growth and Development</i>

Medicine & Health B (HS MDH-B)

Pauley Science Center 106

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Boles John	<i>The Effect of Dengue Virus Serotypes on Antibody Response Magnitude</i>
9:20–9:40 AM	Dewan Yana	<i>Preventing Mosquito Puncture and Saliva Transmission: Evaluation of Novel Topical Barriers using <i>Oncopeltus fasciatus</i></i>
9:40–10:00 AM	Chandra Nisha	<i>The Effect of Different Fermentation Starters on the Sugar Content of Apple Juice</i>
10:00–10:20 AM	Lee Katie	<i>Which treatment best reduces tooth enamel demineralization: water, xylitol, or mouthwash?</i>
10:20–10:40 AM	Break	
11:00–11:20 AM	Angulo Santiago	<i>The Effect of Weight Training on Sprint Performance in Adolescent Male Swimmers During a three-month period</i>
11:20–11:40 AM	Worrell Kindred	<i>Fruit Related Pesticide Exposure Effect on <i>Drosophila melanogaster</i> Survival and Reproduction</i>
11:40–12:00 PM	Luu Brendon	<i>To Grip or Not to Grip: A Study of the Application of Grip Strength on Health</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Osemobor Joshua	<i>Analyzing the Effectiveness of Expansion Techniques for Meningeal Tissue</i>
2:00–2:20 PM	Karim Maryam	<i>Incorporating Chirality and Conductivity in Scaffolds Toward Functional Tissue Regeneration</i>
2:20–2:40 PM	Sun Amy	<i>Targeting phosphoinositide kinase to improve pancreatic cancer vulnerability to ferroptosis</i>
2:40–3:00 PM	Mudimbi Samhita	<i>The Effects of Different Nutrients' Efficiency in Stomach Lining Protection</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Reyes Alessandra	<i>The Effect of Oil Type on Amount of Transepidermal Water Loss (TEWL)</i>
3:40–4:00 PM	Verghese Vivien	<i>The Effect of Moisturizer Humectant on Moisture Retention of Skin</i>
4:00–4:20 PM	Padala Abhinav	<i>The Effect of Natural Substances on Cholesterol Levels</i>

Medicine & Health C (HS MDH-C)

Pauley Science Center 118

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Eesha Pellreddy	<i>The Effect of Anastomosis Angle on Peripheral Vascular Graft Effectiveness</i>
9:20–9:40 AM	Dung Hayleii	<i>The Effect of Natural Liquids on Gelatin Solidification (Coagulation)</i>
10:00–10:20 AM	Judy Olivia	<i>Trapping Water, Not Skin — An In-Vitro Study of Hyaluronic Acid and Occlusive Moisturizers</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Kirby Charlotte	<i>Football Player Hydration and Readiness During High Temperature Summer Practices</i>
11:00–11:20 AM	Garza Mirabella	<i>The Influence of Car Seat Carrying Technique on Lower-Limb Symmetry During Gait</i>
11:20–11:40 AM	Kaur Ajooni	<i>The Effect of Various Senolytic Compounds on Drosophila melanogaster Lifespan</i>
11:40–12:00 PM	Unnithan Bhama	<i>The Effect of Processing Antioxidant-Rich Foods on Antioxidant Level</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Patil Aryan	<i>The Effect of Caffeine Concentrations on Physarum polycephalum Growth</i>
2:00–2:20 PM	Goel Ahana	<i>Evaluating Tinospora cordifolia and Gemcitabine's Combined Effects on Pancreatic Cancer</i>
2:20–2:40 PM	Jiyas Eshal	<i>Different Sunscreen Brands on UV Protection With Stimulated Sweat</i>
2:40–3:00 PM	Sankepalli Ananya	<i>The Effect of Plant Extracts on the Moisture Loss of Gelatin-Based Films</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Bag Sreetoma	<i>The Effect of Different Cancer Cells on their Reaction to Gemcitabine</i>
3:40–4:00 PM	Madaan Arjun	<i>The Effect of Withania somnifera on Girardia tigrina Regeneration</i>
4:00–4:20 PM	Poquis Liana	<i>The Effect of Habitual Heat Exposure on the Integrity of Nickel Titanium Arch Wires</i>

Microbiology & Cell Biology A (HS MCB-A)

Morton Hall 112 AM / 119 PM — MCB-A starts after MB

Time	Student(s)	Paper Title
11:00–11:20 AM	Ghosh Siddharth	<i>The Effect of Plant Species on the Antibiotic Production Viability of Bacteria in Loosely Adhering Soil: A Spatial Microbial Analysis</i>
11:20–11:40 AM	Dawkins Elizabeth	<i>Investigating the Abundance and Diversity of Vibrio Bacteria in the Eastern Oyster, Crassostrea virginica</i>
11:40–12:00 PM	Ali Saad	<i>Investigating Diurnal Oscillations of Cell Division Timing in Stentor coeruleus</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Tasker Brooke	<i>Gut Reactions: The Role of pH in E. coli Growth</i>
2:00–2:20 PM	Vachhani Aarna	<i>The Effect of Chitosan on Bacterial Inhibition</i>
2:20–2:40 PM	Shen Alexander	<i>The Effect of Different Cytokines on Breast Cancer Ferroptosis</i>
2:40–3:00 PM	Singhal Aditya / Ethan Xing	<i>In Vitro Study of Hydrogen Sulfide Therapy as a Treatment for Cardiomyocyte Senescence in Hypertensive Cancer Survivors Treated with Doxorubicin Chemotherapy</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Ganesh Taarun	<i>Investigating Ribosome Interactions with Mitochondrial Receptors and Chaperones with the NAC complex</i>
3:40–4:00 PM	Sambangi Saanvi	<i>The Effect of Different Mushroom Supplements on Milk Coagulation</i>
4:00–4:20 PM	Manchu Lakshmi Sriansha	<i>The Effect of Composts on the Voltage Output of a Yeast Based Microbial Fuel Cell</i>
4:20–4:40 PM	Kulkarni Alisha	<i>The Effect of Essential Oils on the Browning of Malus domestica (Apple)</i>

Microbiology & Cell Biology B (HS MCB-B)

Morton Hall 216

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Geunyoung Chung	<i>Environmental Rigidity and Morphological Plasticity: Modeling Cellular Adaptation to Extracellular Matrix Stiffness</i>
9:20–9:40 AM	Mengistu Abel / Gohil Chaitanya	<i>Development of a Biocompatible DMAPS Hydrogel via Enzymatic Radical Initiation with Multi-Phase Optimizable Release for Tailored Biofilm Treatment</i>
9:40–10:00 AM	Gutta Ridhi	<i>Combatting Lassa Fever: Investigating Pathogenesis and Constructing a Preliminary Vaccine Candidate</i>
10:00–10:20 AM	Bassam Henry / Alemy Basim	<i>Combating Antimicrobial Resistance: Investigating Synergistic Effects of Antibiotics and Bacteriophages</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Wagner Katelyn	<i>Observing Bacteria Growth in Prince William County Water Samples</i>
11:00–11:20 AM	Henry Esmarie	<i>The Effect of Different Preservatives on Lactobacillus Growth</i>
11:20–11:40 AM	Lennon Lilly	<i>The Effect of Different Caffeine Sources on Daphnia Heart Rate</i>
11:40–12:00 PM	Nath Sanjana	<i>The Effect of Coagulants on Blood Coagulation</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Tiwari Stuti	<i>The Effect of Proton Pump Inhibitors on Lactobacillus acidophilus</i>
2:00–2:20 PM	Contractor Zayna	<i>The Effect of Oxidative Stress on Saccharomyces cerevisiae Cell Viability</i>
2:20–2:40 PM	William Sleeman	<i>The Effect of Water Filtration on Bacterial Growth</i>
2:40–3:00 PM	Daddala Darsh	<i>The Effect of Different Types Sunscreens on Melanogenesis in N2a Cells</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Deepshika Bhoopathi	<i>The Effect of bisphenol A on Cell Viability</i>
3:40–4:00 PM	Ganesh Maya	<i>The Effect of Dog Items on Bacterial Growth</i>
4:00–4:20 PM	Kadiri Abhay	<i>The Effect of Enzyme Inhibitors on Saccharomyces cerevisiae Growth</i>
4:20–4:40 PM	George Shaun	<i>The Effect of Light Intensity on Arthrospira platensis Absorption</i>

Microbiology & Cell Biology C (HS MCB-C)

Maples 101

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Holt Ann-Margaret	<i>More Than Meets the Eyelash: The Effects of Application Duration on Microbial Growth in Cosmetics</i>
9:20–9:40 AM	Gupta Aryan	<i>The Effect of Different Species of Cyanobacteria on Its ability to Prevent Photodegradation of Cyanotype</i>
9:40–10:00 AM	Hunt Lillian	<i>Physarum polycephalum and Their Nutrient-Driven Navigation Skills</i>
10:00–10:20 AM	Desai Tulsi	<i>Dual-Bioremediation: The Effects of Co-Culturing Lemna minor and Pseudomonas fluorescens in Simulated Wastewater</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Shah Ayona	<i>The Effect of Varying Magnetic Field Strengths on E. coli Growth</i>
11:00–11:20 AM	Alberti Victoria	<i>The Effect of Fruit Content on Lactobacillus spp. growth Using Kombucha</i>
11:20–11:40 AM	Linford Lauren	<i>Testing How Often Trombone and Baritone Mouthpieces Should Be Cleaned to Remove Streptococcus salivarius</i>
11:40–12:00 PM	Vohra Aasiyah	<i>The Effect of Types of Sugars on the Antimicrobial Activity of Lactobacillus Against Escherichia coli</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Nair Rishi	<i>Comparing type 1 and 2 immunoglobulins in STAT4 myeloid cell knock out in MRL/lpr mice</i>
2:00–2:20 PM	Stickle Tyler	<i>The Effect of Temperature on Chlorella vulgaris' Growth and Ability to Maintain Nitrogen in Water</i>
2:20–2:40 PM	Rahaman Afshin	<i>The Effect of Various Concentrations of Croton lechleri sap on the Growth of Escherichia coli</i>
2:40–3:00 PM	Davay Shiv	<i>Integrating 3D Brain Tissue Models with Molecular Dynamics to Explore Kinesin Stalling and Extracellular Vesicle Release in TBI</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Kaplow Henry	<i>Balancing Survival: Fitness Trade-Offs Between Viral Defense and Antibiotic Resistance</i>
3:40–4:00 PM	Pyle Logan	<i>The Effect of Temperature on Bacteriophage Replication in E. coli</i>
4:00–4:20 PM	Muse Connor	<i>Quantifying Biofilm Growth on Different Surfaces</i>
4:20–4:40 PM	Nguyen Khoinguyen	<i>The Effect of Salinity on the Formation of Coacervate Droplets</i>

Microbiology & Cell Biology D (HS MCB-D)

Maples 201

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Kandula Vihaan Sai	<i>The Effect of Vitamins B1, B2, and C on Lactobacillus acidophilus</i>
9:20–9:40 AM	Cline Cody	<i>Cutting It Close: Finding the Minimum Cas9 Concentration for Effective Gene Editing</i>
9:40–10:00 AM	Elmekharam Ranim	<i>The Effect of Sodium Salicylate Pre-treatment on Intracellular ROS in Yeast</i>
10:00–10:20 AM	Chambers Narissa	<i>GMO Alteration Altercation: Quantitative Analysis of Concentration Based GMO Labeling Procedures</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Stewart Matthew	<i>The Effect of Feeding Various Types of Algae (Green, Brown, Red) to Tardigrades on the Reproductive Rate of Tardigrades</i>
11:00–11:20 AM	Varshini Jagarlamudi	<i>The Effect of Natural Extracts on Bacterial Growth</i>
11:20–11:40 AM	Adusumilli Ritvik	<i>The Role of Engineered Bacterial (E.coli) Biosensors as a Theranostic Treatment for Glioblastoma-Related Cancers</i>
11:40–12:00 PM	Wen Kevin	<i>The Effect of Non-Chemical, ROS-Generating Disinfection Technologies on the Airborne Inactivation of Klebsiella pneumoniae</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM		
2:00–2:20 PM	Levorson Madeline	<i>Novel Antimicrobial Treatments Designed With Discovered Lytic Bacteriophages Evaluated Through a Rapid Screening Protocol and an In Vivo Galleria mellonella System</i>
2:20–2:40 PM	Johnson Brandon	<i>How do different concentrations of plastic fragments in organic soil affect microbial respiration rates and nutrient availability?</i>
2:40–3:00 PM	Patel Eshaan	<i>The Effect of Natural Compounds on Inhibition of Skin Bacteria</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Riya Nimonkar	<i>The Effect of TMS Device Amplitude on The Change in Number of Lactobacillus Cells from Yogurt</i>
3:40–4:00 PM	Nithya Vemula	<i>The Effect of Ayurvedic Oils on the Growth of K12 E. Coli</i>
4:00–4:20 PM	Sahasra Sudeep	<i>The Effect of Different Acne Vulgaris Medications on Escherichia coli</i>
4:20–4:40 PM	Bharti Aneesha	<i>The Effect of Different Pollutants on Escherichia coli</i>

Physics & Astronomy A (HS PHY-A)

Morton Hall 220 AM / 320 PM — PHY-A starts after PA

Time	Student(s)	Paper Title
10:40–11:00 AM	Yoder Gibson	<i>A Comparative Study of Traction Sprays and Their Impact on Basketball Shoe Friction</i>
11:00–11:20 AM	Kungu Chanelle	<i>The Influence of Anthropogenic Light Pollution on Star Visibility and Night Sky Brightness</i>
11:20–11:40 AM	Paine Charlotte	<i>The Effect of Various Combinations of Springs on a Gymnastics Springboard on Maximum Height Attainable Off the Board</i>
11:40–12:00 PM	Tkabadze Luka	<i>The Effect of Applied Force on the Voltage Measured across a Beam of Ice</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Massat Benaich Lillian / Biggins Norah	<i>An Experimental Analysis of the Drag Reduction System Using Computational Fluid Dynamics</i>
2:00–2:20 PM	Morgan Brixton / Lagrosas Abigail / French Alena	<i>Simulating Velocity: A Study on Approximating Rotational Curves in Spiral Galaxies</i>
2:20–2:40 PM	Popel Polina	<i>The Effect of Vibration Dampeners on Distance of Tennis Balls</i>

Physics & Astronomy B (HS PHY-B)

Pannill Commons Chairman's Room (3rd floor)

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:20–9:40 AM	Lamb Charles	<i>Influence of Internal Bow Angle on Vertical Profile of Boat Wakes Under Varying Propulsive Forces</i>
10:00–10:20 AM	Matthewson Blake	<i>Comparative Study of Track Spike Variation and Their Influence on Short Distance Acceleration</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Allauddin Taha	<i>How Different Roughness Levels of Cricket Balls Affect Their Movement in the Air</i>
11:20–11:40 AM	Baron Michael	<i>The Effects of Assorted Fluids on Saxophone Reed Durability</i>
11:40–12:00 PM	Haque Aiden	<i>'Box'ing Carbon Emissions: An Optimization of Transit Bus Drag Through Biomimicry of the Boxfish</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Dahal Anuj / DiMattina Kevin / Kutlan Oguzkhan	<i>Project Aetherion: An Exploration of Rocket Structural Systems at Maximum Dynamic Pressure</i>
2:00–2:20 PM	Shiju Ryaan	<i>The Effect of Spin Type on Soccer Ball Float Time</i>
2:20–2:40 PM	Thompson Ania	<i>Exploring Early Planet Formation: Dust Grain Growth in Orion Class 0/I Disks with ALMA and VLA</i>
2:40–3:00 PM	Walker Ella	<i>The Effects of Hydrophobic Coatings on Monocrystalline versus Polycrystalline Photovoltaic Cells Under Identical Conditions</i>
3:00–3:20 PM	Legutko Joe	<i>The Effect of Satellite Trails on Signal to Noise Ratios for Astrophotography</i>

Psychology A (HS PSY-A)

Pannill Commons 107 AM / 106 PM — PSY-A starts after HB

Time	Student(s)	Paper Title
11:40–12:00 PM	Sheth Dhanvi	<i>Prevalence of Trait and State Anxiety in High School Athletes</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Pendlebury Eric	<i>The Effect of Background Music on Male Performance on Math Assessments in High School Math Classes</i>
2:00–2:20 PM	Fernandez Alejandra	<i>More Than Just Words: How Connotation Affects Emotion and Trust</i>
2:20–2:40 PM	Baber Isaac	<i>The Relationship Between Student Importance of Geography and Geography Test Scores</i>
2:40–3:00 PM	Mistretta Jack	<i>The Effect of Color Exposure on Mood, Heart Rate, and Blood Pressure</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Craig Crawford	<i>Effect of Competition Stakes on High School Student-Athlete Stress Levels</i>
4:20–4:40 PM	Olihnenco Abigail	<i>The Effect of Distractions on Reading Comprehension</i>

Psychology B (HS PSY-B)

Pannill Commons Board Room (3rd floor)

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Lubik Natasha	<i>Effect of Stress and Anxiety on Academic Performance</i>
9:20–9:40 AM	Blackwood Ellie	<i>How Heart Rate Changes While Handling Biological Stimuli in Relation to Curiosity and Nervousness in Children and Teens</i>
9:40–10:00 AM	Turnbow Carrington	<i>How Age Affects the Perception of Stereotypes</i>
10:00–10:20 AM	Jones Madison	<i>How Does Phone Use in Adolescents Affect Mood and Sleep Patterns?</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Freday Evelyn	<i>Examining the Linkage Between Digital Influence and Increasing Student Accommodations in Montgomery County</i>
11:00–11:20 AM	Correa-Loredo Kevin	<i>Evaluating Consumer Home Design Preferences to Guide Housing Industry Decisions</i>
11:20–11:40 AM	Bryant Carter	<i>Examining how the Overuse of Generative Artificial Intelligence Technology Affects Human Cognitive Abilities</i>
11:40–12:00 PM	Meadows Riley	<i>Psychometric Relationships Among Athletic Performance Levels, Mood, and Academic Performance in High School Student Athletes</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Martz-Brooks Ethan	<i>How does the Placebo and Nacebo Effect affect your shooting form?</i>
2:40–3:00 PM	Conner Catherine	<i>Effect of Background Music in a Video on Heart Rate</i>
3:00–3:20 PM	Break	
3:20–3:40 PM	Beazley Tinsley	<i>A Correlation between Short-Term and Working Memory and Cognitive Ability in Children</i>
3:40–4:00 PM	Yong Mu Zhen	<i>The Effect of AI Model on Human Recognition of Text</i>
4:00–4:20 PM	Misra Anushka	<i>Is Your Internal Clock Hypnotized? The Effect of Psychological Beliefs on Circadian Rhythm</i>
4:20–4:40 PM	Nock Mia	<i>The Effect of Prior Stimulus on Emotion Recognition Accuracy</i>

Statistical Analysis & Inferences (HS SAI)

Kirk 309

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Ashton Loralai	<i>The Impact of the COVID-19 Pandemic on Student Enrollment in Arts Programs: A Comparative Analysis Before, During, and After the Pandemic</i>
9:20–9:40 AM	Sheets Addison	<i>Determining Funding Strategies at Southwest Virginia Animal Shelters</i>
9:40–10:00 AM	Yang Daxing	<i>Historical Redlining and Urban Heat Islands in Norfolk, Virginia</i>
10:00–10:20 AM	Marsden Madilyn	<i>Roots to Results: Understanding the Impacts of Preschool on At-risk Students' Kindergarten Success</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Deane Sydney	<i>Clarity, Comfort, and Stress: Understanding Students' Experiences with Generative AI in Academic Work</i>
11:00–11:20 AM	Joyasawal Shriyans	<i>Predicting Chromosomal Conformation Changes Using Deep Learning Models</i>
11:20–11:40 AM	Vijay Dhruv	<i>Transcriptomic Analysis of Skeletal Muscle Adaptation to Injury and Resistance Exercise</i>
11:40–12:00 PM	Foutz Vivian	<i>A Statistical Framework for Quantifying Lifestyle as Behavioral DNA from Population-Scale Mobility Data</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	

Zoology A (HS ZOO-A)

Bortz Library Cabell Room

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Carothers Tovia	<i>The Effect of Increased Activity on the Heart Rate Variability and Lifespan of Daphnia magna</i>
9:20–9:40 AM	Pittarelli Arianna	<i>Effects of Synthetic and Natural Sugars on Reproduction and Development in Drosophila melanogaster</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Lauria-Leighton Liam	<i>Hermit Crab Claw Strength as Related to Body Weight</i>
11:00–11:20 AM	Gitre Xavier	<i>Parent-absent begging in Eastern Bluebirds (Sialis sialis): An exploratory study</i>
11:20–11:40 AM	Kumar Priya	<i>The Effect of different concentrations of resveratrol on the heart rate of the Daphnia magna</i>
11:40–12:00 PM	Mann Maheep	<i>The Effect of Honey on Cognitive Ability</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Yella Misha	<i>The Effect of Concentrations of Lidocaine Gel on the Reflex Suppression of Crickets</i>
2:00–2:20 PM	Harry Nishal	<i>The Effect of Polyvinyl Chloride Concentrations on Daphnia magna</i>
2:20–2:40 PM	Sura Tanmayee	<i>The Effect Various Spices on Planarian Regeneration Rate</i>
2:40–3:00 PM	Hawkins Viyka	<i>Hermit Crab Reaction Time to Predators When Presented with Different Road Traffic Noise Frequencies</i>
3:00–3:20 PM	Porter Jack	<i>Impacts of Lead on the Cognitive Function of the Flatworm, Girardia tigrina</i>

Zoology B (HS ZOO-B)

Bortz Library 4th Floor Lecture Area

Please convene by 8:55 AM for Announcements

Time	Student(s)	Paper Title
9:00–9:20 AM	Buhler Alex	<i>The Effect of Caffeine and Social Environment on Drosophila melanogaster Longevity</i>
9:20–9:40 AM	Kwong Isaac	<i>The Effect of Sound Based Conditioning Trials on the Behavioral Response of Orthoporus texicolens</i>
9:40–10:00 AM	Rader Matthew	<i>Testing the Limits: Revival of Hypsibius exemplaris after Dehydration and Vacuum Exposure</i>
10:00–10:20 AM	Warren Sarah	<i>Preserving at a Cost: Sodium Benzoate Effects on Growth and Reproduction in Caenorhabditis elegans</i>
10:20–10:40 AM	Break	
10:40–11:00 AM	Simon Sophia	<i>The Effect of Using Vinegar vs. Fly Traps on the Number of Fruit Flies Caught, Over Time</i>
11:00–11:20 AM	Johnson Natalie	<i>Comparison of Papaya Seed-Derived Benzyl Isothiocyanate and the Synthetic Repellents DEET and Permethrin on Lone Star Ticks (Amblyomma americanum)</i>
11:20–11:40 AM	Bowman Lilly	<i>The Birth Weight of Lambs When The Ewe is Fed More Protein</i>
12:00–1:20 PM	Jeffers Lecture & Lunch Break	
1:40–2:00 PM	Bhatti Daniyal	<i>The Effect of Centella asiatica Extract on Stem Cell Regeneration Modeled by Dugesia dorotocephala</i>
2:00–2:20 PM	Agrawal Agam	<i>The Effect of Nutritional Composition of Lure on Ant Attraction</i>
2:20–2:40 PM	Wasson Isla	<i>Azadirachtin as a Means of Reducing Fertility in Drosophila melanogaster</i>

