Animal & Human Sciences (MS AH)

GARBER 204

Please convene by 8:45 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Anusha Chakraborty The Effect of Varying pH Levels in Acne Treatments on Skin Pathophysiology and Efficacy	Virtual
9:20-9:40 AM	Singhal Aditya Examining the Impacts of Phenol Red, on the Behavioral Changes of the Daphnia magna, as a method to simulate the impacts of EDCs on the Hu	Virtual
9:40-10 AM	Uppalapati Bhavya Novel Bio-printed Rice Flour- Vitamin C Trojan Horse Carrier promotes Bactericidal Dual Inhibition of IleRS for the Long-Term Eradication of M	Virtual
10-10:20 AM	Audrey Bell The Effect of Species Type on Oral Bacteria Presence	Virtual
10:20-10:40 AM	Break	
10:40-11 AM	Mallick Rajat The Effect of Sleep Amount on Sleep Quality and Effectiveness	Virtual
11-11:20 AM	Manoj, Navin - The Effect of Caffeine on People's Production and Tasks	Virtual
11:20-11:40AM	Michael Naod The Effect of Excessive Fluoride in Drinking Water on the Discoloration of Eggshells	In person
11:40-12:00PM	Naavaal Siddhant The Application of a Machine Learning Model with Cross-Validation to Predict Heart Disease	In person
12:00-1:00PM	Jeffers Speaker and Lunch Break	
1:00-1:20PM	Rithvik Reddigari, The effect of different foods on ghost shrimp offspring, health and wellbeing.	Virtual
1:20-1:40PM	Mishra Anushka Are Foot Arches Inherited? The Effect of Heredity on Foot Arch Type	In person
1:40-2PM	Saxena Aarav Predicting Hatch Rates Of Artemia (Brine Shrimp) Using Machine Learning Algorithms on Artemia Egg Shells	in person
2-2:20PM	Shivhare Kairav: THE EFFECT OF HEV LIGHT ON HUMAN SLEEP AND EYES	In person
2:20-2:40PM	Break	
2:40-3PM	Lateef Deen_Tracing the Trail of Toxins Through our Ecosystems: The Effect of Microplastics on the Lifecycle of the Butterfly	Virtual

Chemical Science A (MS-CS A)

GARBER 305

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Aravind Michelle, The Effects of Different Levels of Chlorine on Different Skin	virtual
9:20-9:40 AM	Bodduna Yashwanth The effect of different chemical bases on elimination of wood rot	Virtual
9:40-10 AM	Chokshi Sanam The Effect of the Type of Sports Drink on the Electrical Resistance	Virtual
10-10:20 AM	Gangrade Divit The effect of different water purification methods on how turbid the water is and how the pH level is affected	In person
10:20-10:40 AM	Break	
10:40-11 AM	Jain, Pahel The Effect of Hydrogen Peroxide’s Concentration on Corrosion of Aluminum	Virtual
11-11:20 AM	Kaur Ajooni The Effect of the Amount of Sodium Citrate on Simulated Blood Clots	In person
11:20-11:40 AM	Mahesh Umika The Effect of Heat Cooking Methods on the Iron Content in Tofu	In person
11:40-12 PM	Mulla Abdur Rahman The Effect of Different Water Filters on Unfiltered Water	In person
12:00-1:00 PM	Jeffers Lecture & Lunch Break	
1-1:20 PM	Shreya Varma Sooraj, Paper Chromatography: The Effect of Different Solvents on the Sample	Virtual
I:20 - 1:40 PM	Tadinada Bhargav The Effect of Different Water Temperatures on Oil Spill Cleanup Efficiency Using Polymers	In person
1:40 - 2 PM	Yellin, Helena TESTING THE EFFECT OF HYDROGEN PEROXIDE USED AS A HAIR-LIGHTENING AGENT ON TENSILE STRENGTH	In person

Chemical Science B (MS CS-B)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Ahmad, Sarmed The Effect of Food Wrappings on Apple Slices' Oxidation
9:20-9:40 AM	Ahmed Safoora Investigating the Effectiveness of Natural and Commercial Anticoagulants in Preventing Blood Clot Formation
9:40-10 AM	Bansal Reya The Effect of High Temperatures on the Sugar Content of Bananas as an Indicator of Ripeness
10-10:20 AM	Colin He - How the Amount of Sugar Affects How Foam Stabilizes in Coffee
10:20-10:40 AM	Break
10:40-11 AM	Jaime Baker The Effect of Different Natural Antacids on the PH of Vinegar
11-11:20 AM	Khemka Anjali The Effect of Different Water Purification Methods on Contaminant Removal
11:20-11:40 AM	Mathew Caleb The Effect of Sacrificial Anodes on Corrosion of Iron
11:40-12 PM	Mishra, Bhanu, The Effect of Food Processing on Nutrient Retention
12:00-1:00 PM	Jeffers Speaker & Lunch Break
1:00-1:20 PM	Nair Arjun Bio-batteries: A Potential Replacement for Conventional Batteries
1:20-1:40 PM	Yang Lily The Effect of Different Treatments on Hair Damage

Ecology & Earth Sciences (MS EE)

GARBER 306

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Akhil Loya The Effect of Water Purity on Surface Tension	Virtual	No Show
9:20-9:40 AM	Bejugam Saanvi The Effect of Artificial Sweeteners on the Heart Rate of Daphnia Magna	Virtual	
9:40-10 AM	Kandula Vihaan Sai, The Effect of Different CO2 Absorbing Materials on the CO2 Concentration in an Enclosed Space	Virtual	
10-10:20 AM	Mahapatra Arhan Discovery of Plastic-Degrading Enzymes from Diverse Environments	Virtual	
10:20-10:40 AM	Break		
10:40-11 AM	Manchu Lakshmi Sriansha The Effect of Salicylic Acid on the Chlorophyll in Plants	Virtual	No Show
11-11:20 AM	Vallapureddy Aarna The Effect of Different Fertilizers on the Concentration of Phosphates in the Water drained from Patches of Grass	Virtual	
11:20-11:40 AM*	Nath Sanjana -The Effect of Algaes on Liquid Tree Oxygen Output	In person	
11:40-12 PM*	Rzewnicki-Cho Maya The Effect of Rock Climbing Popularity and Management Policies on the Ecological Health of Popular Climbing Parks	In person	
12:00-1:00 PM*	Jeffers Speaker & Lunch Break		
1:00-1:20 PM*	Shirodkar Vihaan The Effect of pH Levels on Yeast Fermentation	In person	
1:20-1:40 PM*	Talluri Daksha The Effect of Different Layers Above Soil on the Amount of Soil Erosion	In person	
1:40-2PM*	Zee Rebecca The Effect of Cadmium Selenide Quantum Dot Diameter on Photocatalytic Water Purification Efficiency	In person	

Engineering & Technology (MS ET)

GARBER 124

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Anish Konjeti, The Effectiveness of Reflective Material on Light and Heat	Virtual
9:20-9:40 AM	Guvalla Ritvik The Effect of The Helicopter Blade’s Curve Angle on The Power/Lift generated by The Helicopter.	Virtual
9:40-10 AM	Pradawong Millie, In Silico Analysis of Anisotropic and Helical Bacterial Cellulose Structures for Enhanced Mechanical Performance	Virtual
10-10:20 AM	Prakash, Nandita The Effect Of Aerodynamics On Car Models	Virtual
10:20-10:40 AM	Break	
10:40-11 AM	Atulasimha Advaith,Energy Produced by a Piezoelectric Crystal When Mechanical Stress is Applied	in person
11-11:20 AM	Ghosh Arinjay Joint Optimization of Vaccination Levels for Covid-19 and Flu	in person

11:20-11:40 AM	Lao Naomi The Effects of Architecture on Airflow	in person	
11:40-12 PM	Madaan Arjun Biopython Enhancements: Accelerating DNA Sequence Search through Algorithmic Optimization	in person	
12:00-I:00 PM	Jeffers Lecture & Lunch		
1-1:20 PM	Polkosnik Matthew The Effect of Different Types of Metals on the Rotations of the Ionic Rotor per Minute	in person	
1:20-1:40 PM	Shivkumar Taran The effect of various liquids on the load endurance capacity of a hydraulic device	in person	
1:40-2 PM	Sibley Kayla The Effect of Different Machine Learning Models on the Ability to Predict Market Success of a Book Using Cover Art	in person	

Human Behavior

GARBER 125

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Manjunatha Ruthvik, The Effect of Artificial Intelligence on the Student's Cognitive Abilities	Virtual	
9:20-9:40 AM	Ritu Manikanta The Effect of Different Scents on Mood	Virtual	
9:40-10 AM	Sureshkumar Rheeya The Effect of the Time of Day on People’s Color Choices	Virtual	
10-10:20 AM	Chloe Sistrunk Impressions from a Hands-On Engineering Field Trip and Why We Need More of Them	In Person	
10:20-10:40 AM	Break		
10:40-11 AM	Kamil Rachel Hou Ruoqi The Effect of Future Terrorism with AI on Human Response	in person	No show
11-11:20 AM	Mishra Sanyam, The Effect of Cognitive Load on the Depth of Perception in the Human Mind.	in person	No show
11:20-11:40 AM	Shivelight Solace, Smith Ezri The Effect of Frequency on Heart Rate	in person	
11:40-12 PM	William Cale How Does A Student’s Lighting Environment Affect Their Productivity?	in person	No show
12:00-I:00 PM	Jeffers Lecture & Lunch		

Physical Science & Astronomy (MS PA)

LIBRARY 203

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Almond Donald The Effect of Electromagnetic Shielding on Electromagnetic Shielding	Virtual
9:20-9:40 AM	Sajith Shivaani The Effect of Different Paints on a Light Bulb's Radiance	Virtual
9:40-10 AM	Thomas Yap The Effect of Molecular Structure on the Intensity and Refraction of Light in a Plenum	In person
10-10:20 AM	Arora Yash - The Effect of Different Designs of Crumple Zones on the Impact Forces on a Passenger	Virtual
10:20-10:40 AM	Break	
10:40-11 AM	Ayalew Maedot The Effect of Solar Magnetic Flux and Spatiotemporal Interplanetary Magnetic Field Variations on Space Weather Prediction Accuracy	In Person
11-11:20 AM	Hayes Aaron The Effect of Tennis String Type on the Speed of a Forehand Tennis Stroke	In Person
11:20-11:40 AM	Kadiri Abhay The Effect of different solubles on the Mpemba Effect	In Person
11:40-12 AM	Ledford Leif, Torres-Tresize Miles THE EFFECT OF DIFFERENT AMOUNTS OF TIRE PRESSURE ON TIME ELAPSED AROUND A BMX TRACK	In Person
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Saurav Aprameya The Effect of Repelling Magnets on Maglev-Powered Floating Car Crashes	Virtual
1:20-1:40 PM		
1:40-2 PM		
2-2:20 PM		
2:20-2:40 PM	Break	

Plant Science & Microbiology A (MS PM-A)

LIBRARY 204

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9:00-9:20 AM	Rishwitha Chamarthi The Effect of Different Preservation Methods on Tomatoes	Virtual
9:20-9:40 AM	Krosuri Siri The Effect of Light on the Time it Takes for Mold to Grow	Virtual
9:20-9:40 AM	Rishwitha Chamarthi The Effect of Different Preservation Methods on Tomatoes	Virtual
9:40-10 AM	Guo Sophie The Effect of Antibiotics on the Development of the Antibiotic Resistance of E. coli.	In person
10-10:20 AM	Habib Samara The Effect of Temperature on the Amount of Vitamin C in Lemons	Virtual
10:20-10:40 AM	Break	
10:40-11 AM	Nepal Manan - The Effect of Sugar and Sugar Substitutes on Yeast Expansion	In person
11-11:20 AM	Sagnik Banerjee The Effect of a Humidity Chamber on the Susceptibility of Indian Breads to Mold	In person
11:20-11:40 AM	Sethuraman Mithun The Effect of Two Different Fertilizers on Winter Plants	In person
11:40-12 AM	Uddin Esaam Effectiveness of Different Natural Pesticides on Different Pests on Plants	In person
12-1 PM	Jeffers Lecture & Lunch	

Plant Science & Microbiology B (MS PM-B)

LIBRARY 205

Please convene by 8:55 AM for Announcements, In person section

	Student Name(s) & Paper Title	
9-9:20 AM	Thotakura Sanjana Effects of Fertilizer and pH Levels on Sprouting Time	In person
9:20-9:40 AM	Bag Sreetoma, The Effect of Antibiotics on Gram-positive and Gram-negative Bacteria	in person
9:40-10 AM	Inukonda Akshith The Effect of Different Colored Rays on Plant Growth	in person
10-10:20 AM	Lella Mahati The Effect of Simulated Acid Rain on Soybean Germination	in person
10:20-10:40 AM	Break	
10:40-11 AM	Mandal Anisha The Effect of Organic Fruits vs Conventionally Grown Fruits on Shelf Life	in person
11-11:20 AM	Patel Eshaan The Effect of CO_2 Absorption Promoting Light Exposure on Photosynthesis	in person
11:20-11:40 AM	Patil Risheka The Effect of the Amount of Raphanus sativus Roots on the Erosion of Soil	in person
11:40-12 AM	Thotakura Sanjana Effects of Fertilizer and pH Levels on Sprouting Time	in person
12-1 PM	Jeffers Lecture & Lunch	

Botany A (HS BOT-A)

BRITT 106

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Agam Agrawal The Effect of Different Types of Fruit Peel Compost on Growth of Raphanus Sativus	virtual
9:20-9:40 AM	Aminata Conteh, Rome John Henriques, Ngozi Imala, The Effect of Acetylsalicylic Acid on Various Herbs Under Stress Conditions	virtual
9:40-10 AM	Anand Balaji Amogha The Effect of Magnets on Capsicum Frutescens Mass	virtual
10-10:20 AM	Batra Hazel The Effect of Caffeine Concentrations on Sunflower Growth	virtual
10:20-10:40 AM	Break	
10:40-11 AM	Sloan Lucy The Effect of Recorded Versus Authentic Stressed Solanum Lycopersicum Sounds on Water Mass Percentage of Other S. Lycopersicum	
11-11:20 AM	Sloan, Spencer Shaking It Up: The Effects of Auxin and Mechanical Stress on Raphanus sativus Seeds	inperson
11:20-11:40 AM	Sackett Helen The Environmental Effects on a Fireweed Seedling's Germination	in person
11:40-12 PM	Blankenship Marshall Fusarium Fighters: Examining the Abilities of Pseudomonas fluorescens as a Biofertilizer in Radish Plants	in person

12-1 PM	Break Jeffers Lecture & Lunch Break	
1-1:20 PM	Gandhi Avi Testing if Liquid Ashwagandha Supplement Will Increase the Rate of Growth for Cilantro	in person
1:20-1:40 PM	Haskins Noah The Effect of Growth Medium of Scallions on the Nutritional Value of the Resultant Scallions	virtual
1:40-2 PM	Pollard Landon, Snap Digest Repeat: DIgestion in Venus Flytraps	in person
2-2:20 PM	~~Kalikota Mahith The Effect of Soil pH on Plant Growth and Mass~~	~~in person~~
2:20-2:40 PM	Break	
2:40-3 PM	Pradeep Dyuti The Effect of Plants on Mass Affected by UV Lights	in person
3-3:20 PM	Steele Eleanor Effects of Biochar Soil Amendment on Pisum Sativum Under Flood Conditions	in person
3:20-3:40 PM		

Botany B (HS BOT-B)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Lennon Lilly The Effect of Different Light Sources on Vitamin C Production in Parsley
9:20-9:40 AM	Daddala Darsh The Effect of Different Types of Strawberries on Pesticide Residue Test Results.
9:40-10 AM	Ding Brandon The Effect of Natural Fertilizers and Worms on Plant Growth
10-10:20 AM	Evan Huizar, Kenn Wu The Application of Activated Carbon for Reducing Adverse Effects of Runoff Contaminants on Solanum lycopersicum
10:20-10:40 AM	Break
10:40-11 AM	Fang Abigail The Effect of Applying NO Capsules When Planting Radish Seeds on the Resultant Radish Weight, Plant Height, and Leaf Number of the Radishes
11-11:20 AM	Lahmers Sage Symbiotic Strength: Evaluating Mycorrhizal & Nitrogen-Fixing Influences on Plant Fitness
11:20-11:40 AM	Lin Jason The Effect of Varying Amounts of Mycorrhizal Inoculant on the Final Height of Soybean Plants
11:40-12 AM	Nair Niharika, The Effect of Rhizobia (Nitrogen-Fixing Bacteria) VS. Nitrogen Fertilizer on Bean Plant Growth
12-1 PM	Jeffers Lecture & Lunch Break
1-1:20 PM	Sankepalli Ananya The Effect of Homemade Floral Preservatives on Post-Harvested Hydrangeas
1:20-1:40 PM	Schuman Micah The Effect of Various Combinations of Soil Type and Fertilizer Type on Clover Biomass and Height
1:40-2 PM	Varnika Padmanabhan, The Effect of Various Manure Types on Celeriac Growth
2-2:20 PM	Zareen Subah The Effect of Hard Vs. Soft Water on Duckweed Reproduction Rate
2:20-2:40 PM	Break
2:40-3PM	Martinez Anna The Effect of Adding Different Levels of Roasted Coffee Bean Grounds to Soil on the Growths of Radishes

Chemistry A (HS CHM-A)

BRITT 107

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	William Heiland The Effect of Using Soy Milk and Soy Butter, in a Shortbread Cookie Recipe, on the Length, Width, Weight of the Resultant Cookies	Virtual
9:20-9:40 AM	Alber Regan, The Effect of pH on the Dissolution Rate of Different OTC Painkillers	In person
9:40-10 AM	Camp Phoebe The Effect of Household Lights on the Color Fading of Different Organic Pigments in Paint	In person
10-10:20 AM	Guo Serena Orange You Curious? The Biocatalytic Capabilities of Peroxidase on the Degredation of Acid Orange 7	In person
10:20-10:40 AM	Break	
10:40-11 AM	Hoerter Ruby Concentrations of β-Carotene in Fresh, Canned, and Frozen Carrots	In person
11-11:20 AM	Reed Anna Jane Cobalt Absorption Potential of Hyperaccumulating Plants	In person
11:20-11:40 AM	Wells Noah The Effect of Chlorine on the Color of the Fabrics of a Swimsuit	In person
11:40-12 AM		

12-1 PM	Jeffers Lecture & Lunch Break	

Chemistry B (HS CHM-B)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title	
9-9:20 AM	Ahmed Tazmeen -The Effect of Temperature on the Degradation of Vitamin C Solution	
9:20-9:40 AM	Aiden Wright, The Effect of Adding Lignin to Adhesive Solutions on the Grip Strength of the Adhesive Solutions	
9:40-10 AM	Desai Hrishi, Kasi Raghav Calcium-Doped Biochar for Optimized Glyphosate Removal in Aqueous Media	
10-10:20 AM	Glahn Natalia The Effect of Various Types of Glue on the Temperature at Which the Glue Decomposes	
10:20-10:40 AM	Break	
10:40-11 AM	Kaur Avani Combating Alzheimer's Disease: Design and Synthesis of a Novel Drug Molecule for Targeted Metal Chelation Therapy	
11-11:20 AM	Mathew Anya The Effect of Albumin Concentrations on Coomassie Blue Absorbance in Indicating High CRP Levels Associated with Cardiovascular Disease	
11:20-11:40 AM	Methari Anwitha The Effect of Different Solvent Mixtures on Extraction of Lipids from Chlorella Vulgaris algae powder.	
11:40-12 AM	Modi Aditya -The Effect of Starches on Digestion Time Using Salivary Amylase	
12-1 PM	Jeffers Lecture and Lunch Break	
1-1:20 PM	Nanduri Rishab, Quantum Dot Bayesian Adaptive Parameter Tuner: A Novel AI-Optimized Computational Simulation of QD Binding to HER-2 Cancer Receptors	no show
1:20-1:40 PM	Veerapaneni Srivedha The Effect of Different Substances on Heat Protection of Hair	
1:40-2 PM	Walters Ian Characterizing Contrail Formation Dynamics Over the Continental United States	
2-2:20 PM	Yella Misha The Effect of Different Wraps/Containers on the Browning of Apples	
2:20-2:40 PM	Break	
2:40-3PM	Zhao Minhan The Effects of Environmental Factors on Crystallized Sucrose's Mass and Structure	

Computational Biology A (HS-COM A)

GARBER 107

Please convene by 8:55 AM for Announcements, In person section

	Student Name(s) & Paper Title	
9-9:20 AM	Beasley Connor Integrative Identification and Analysis of Fungal Ice Nucleation Candidate Proteins with Computational Biochemistry	In person
9:20-9:40 AM		
9:40-10 AM	Martin Josiah A Comparison in the Accuracy of Multimodal Large-Scale AI Models Identifying Images of Varying Resolutions	In person
10-10:20 AM	Nair Rishi AI-Augmented Computational Modeling of Bispecific antibody targeting B7H4+ cancer cells and CD3e+ CAR T-Cells for Targeted Therapy in Solid Tum	In person
10:20-10:40 AM	Break	
10:40-11 AM	Noh Juyeop Detecting Fusarisum Wilt using Convolutional Neural Network	In person
11-11:20 AM	Patel Aarish Using Convolutional Neural Networks to Detect and Classify Early Onset Alzheimer's	In person
11:20-11:40 AM	Uppalapati Khartik, RegMNNs: Algorithmic Regeneration in Neuroplastic Mechanical Neural Networks Enables the Manufacturing of Self-Healing DNA Gel Polym	In person
11:40-12 PM	Davay Shiv NeuralODEs for Biological Memory Dynamics: A Computational Model of Synaptic Tagging and Capture	In person
12:00-1:00 PM	Jeffers Lecture & Lunch Break	

Computational Biology B (HS-COM B)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Alex Tarun Design and Validation of CRISPR-Cas9 gRNAs in Targeting the HBB Gene Mutation in Sickle Cell Anemia
9:20-9:40 AM	Chung Geunyoung Application of Machine Learning on the Reoccurence of Thyroid Cancer

9:40-10 AM	Gourineni Sreeram Targeted Inhibition of Oncogenic p300 Proteins Using Novel PROTACs for Hepatocellular Carcinoma Therapy
10-10:20 AM	Madamalla Esha, Khandelwal Aditya MRI and EEG Utilization for Early Detection of Frontotemporal Dementia using a Semi-Supervised Machine Learning Model
10:20-10:40 AM	Break
10:40-11 AM	Penumudi Aashritha Understanding the Structural Basis of Ribosomal Stalling by Cellular Arresting Peptides
11-11:20 AM	Pradawong McKay, In Silico Bioassays of Polyphenol-Enhanced Cephalosporin Composites Targeting Penicillin-Binding Protein 2a in Methicillin-Resistant Staphylococcus aureus
11:20-11:40 AM	Ravi Srishanth MSallNet: A Deep Learning Approach for Multiple Sclerosis Lesion Analysis
11:40-12 PM	Sabharwal Yashvir BrainStorm: Reconstructing Natural Vision From fMRI & EEG Using Generative Models for Communication and Covert Awareness in Neurological States
12:00-1:00 PM	Jeffers Lecture & Lunch Break
1-1:20 PM	Schuman Jonah The Effect of Using TensorFlow vs. PyTorch to Interpret Data on Amount of Time until Data is Interpreted at 70% Accuracy
I:20 - 1:40 PM	Srivastava Arav Convolutional Neural Network for Histopathology images: Classification of Breast Cancer Tumor Tissue types
1:40 - 2 PM	Sundarrajan Pranav Computational Design of Novel CD117-Specific RNA Aptamers for Targeted Therapy of Glioblastoma Multiforme (GBM)
2-2:20 PM	Borek Dylan, Kim Lauren, Baccouche Aisha, Analyzing the Implications of Additives on Alzheimer's & Dementia Symptoms in Drosophila melanogaster
Break	
2:20-3 PM	Davenport Allison From Data to Diagnosis: Predicting Thyroid Cancer Recurrence

Engineering A (HS EGR-A)

BECKHAM 202

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Cohen Gabriel Binary Classification of Human-Created and AI-Generated Music Using a Convolutional Neural Network	Virtual
9:20-9:40 AM	Clemons Larah The Effect of Mass Distribution on a Rotating Mass Wave Energy Converter	In person
9:40-10 AM	Ingrid Jora The Accuracy of an American Sign Language-Recognition Deep Neural Network (Transfer Learning Approach) under Simulated Healthcare Conditions	In person
10-10:20 AM	Pratt Henry The Effects of Improper Bicycle Helmet Usage	In person
10:20-10:40 AM	Break	
10:40-11 AM	Smith Brodey The Effect of Class F Fly Ash on the Compressive Strength of Portland Cement	In person
11-11:20 AM	Stevens Grace The Effect of Blade Angle and Blade Coatings on a Wind Turbine's Efficiency	In person
11:20-11:40 AM	Vaidya Atharva AI-Powered Wearable Navigation System for the Visually Impaired	In person
11:40-12 AM	Williams Sam Comparing the Aerodynamics of Different Angles of Airplane Wing Sweep	In person
12-1 PM	Jeffers Lecture & Lunch Break	
1-1:20 PM	Yu Ian A novel approach to Martian obstacle detection through Ultrasonic Transducers	In person
1:20-1:40 PM	Wanchoo Devin Evaluating Biomimetic Surface Patterns for Heat Resistance	Virtual

Engineering B (HS EGR-B)

BECKHAM 204

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Jansen Erin Halting Fast Fashion to Impart Sustainability to the Textile Industry: The Effect of Glycerin Concentration on Mechanical Properties of Sodium Alginat	Virtual
9:20-9:40 AM	Miller Hart, The Effect of Varying Materials, Used as Obstacles to Block a WiFi Signal, on the Resultant WiFi Strength and Speed	Virtual
9:40-10 AM	Chen Veness Effects of Varying Infill Density and Structure on the Tensile-Strength-to-Mass Ratio of a 3D-Printed Object	In person
10-10:20 AM	Flint Jacob The Effect of Angle and Protective Coatings on Solar Power Output	In person
10:20-10:40 AM	Break	
10:40-11 AM	Gibbs Justus The Effect of Temperature on curing Foamed Concrete and Compressive Strength	In person
11-11:20 AM	Guanzon Apollo, Comparing the Impact Resistance of Mycelium Biomaterials to that of Common Use Polystyrene Plastics	In person

11:20-11:40 AM	Hall Braeden The Effect of Filament Type on the Tensile-Strength-to-Mass Ratio of a 3D-Printed Object	In person	
11:40-12 AM	Jora Macrea Ian Repeated Impacts on Cycling Helmet Efficacy	In person	
12-1 PM	Jeffers Lecture & Lunch Break		
1-1:20 PM	Manikanden Vishal, Bandlamudi Aniketh Designing a Convolutional Neural Network for High-Accuracy Oral Cavity Squamous Cell Carcinoma (OCSCC) Detectio	In person	
1:20-1:40 PM	Marcais Margot Comparing PET Plastic Experimental Stuffing to Common Stuffing Materials	In person	
1:40-2 PM	Penrod Robert The Effect of Copper Powder on Agarose Gel's ability to Hold and Conserve Electric Charge	in person	No show
2-2:20 PM	Young Ruger The Effect of Winglet Angle on Lift and Drag	In person	

Engineering C (HS EGR-C)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Bothra Sanaya -Characterizing a Fiber Based Synaptic Device Using Transcranial Magnetic Stimulation
9:20-9:40 AM	Cho Victor Real-Time Concussion Detection: A Helmet-Integrated Sensor Device for Youth Football Safety
9:40-10 AM	Eam Colton The Effect of Different Types of Running Shoe Insoles on the Depth of the Insoles After Being Compressed Repeatedly
10-10:20 AM	Fiscus Quinn The Effect of Model City Layout Designs on Number of Standing Buildings After a Simulated Hurricane
10:20-10:40 AM	Break
10:40-11 AM	Foutz Vivian AI-Powered Learning Companion: Algorithm Design and Performance Evaluation
11-11:20 AM	Guo Vincent The Effect of Plasma Treatment on PET Filter Media and Flow Rates on Water Filtration Efficiency of Filter Media in Diesel Fuel
11:20-11:40 AM	Homiller George The Effect of Ping Pong Ball Temperature on Bounce Height
11:40-12 AM	James Coleman The Effect of Various Organic Additives on The Compressive Strength of Concrete
12-1 PM	Jeffers Lecture & Lunch Break
1-1:20 PM	Thompson Caiden, Goto Aiden, Adhikari Adit Seed Cyclone: Reforestation through Aerial Seed Dispersion
1:20-1:40 PM	Nyffeler Megan The Effect of Fire Retardants on the Ignition Time of Cotton
1:40-2 PM	Raddin Stacer The Effect of Type of Fishing Line Knot on Amount of Mass Required to Break the Line
2-2:20 PM	Rajakumar Rohit Evaluating Image Segmentation Models on Drone-Based Flood Imagery
2:20-2:40 PM	Break
2:40-3 PM	Shadi Tissire Effectiveness of different materials in soundproofing
3-3:20 PM	Shah Essam The Effect of Varied Electrical Insulation Materials on the Electrical Output of a Resisted Current

Environmental & Earth Science A (HS ENV-A)

SWARTZ 120

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Ackleson Emma Comparing the Carbon Sequestration Efficiency of Algae and Diatom Phytoplankton in a Replicated Epipelagic Environment Under Simulated Cl	Virtual	No show
9:20-9:40 AM	Lord Connor The Effect of Uraninite-Simulated Phosphogypsum-Based Roadways on Red Worms and Pill Bugs Living in the Soil	Virtual	
9:40-10 AM	Bierlein Lyndon What is The Most Effective Way to Increase Nitrogen in a loamy-textured Soil?	In person	
10-10:20 AM	Butt Kelly The Effects of Inorganic and Organic Fertilizer on Soil Quality	In person	
10:20-10:40 AM	Break		
10:40-11 AM	Coughlan William Effect of Microplastics on Growth and Reproduction of Daphnia magna	In person	
11-11:20 AM	Whorley Carolanne The Effect of Sand Filtration Ratio of Escherichia coli Removal from Water	In person	
11:20-11:40 AM	Winn Ella The Phytoremediation Efficiency of Elodea canadensis	In person	
11:40-12 AM	Dobson Abby A Study of The Effect of Varying Levels of Iron Supplementation on Lettuce (Lactuca sativa) Growth in Media-bed Aquaponics	In person	
12-1 PM	Jeffers Lecture & Lunch Break		

1-1:20 PM	Morgan Jaeden Effects of Different Fertilizers on Soil Microbial Activity and Production	In person	
1:20-1:40 PM	Ni Alexandra Machine Learning–Driven Analysis of Temperature and Proximity Effects on Landfill Greenhouse Gas Emissions	In person	
1:40-2 PM	Swenson Alexandria Mechanical and Aesthetic Properties of Alginate-Based Yarn and its Commercial Counterparts	In person	
2-2:20 PM	Uppalapati Kavya The Effect of Temperature Abuse on Ascorbic Acid Concentration	In person	
2:20-2:40 PM	Break		
2:40-3 PM	Webb Gabriella Exploring The Effect Of Changes In Water Temperature On Pyrocystis Fusiformis	In person	
3-3:20 PM	Whitt - Victoria - EFFECTIVENESS OF DIFFERENT SUBSTRATES AND TEXTURES ON THE SETTLEMENT OF EASTERN OYSTER LARVAE (CRASSOSTRE	In person	
3:20-3:40 PM	Eanes Aiden Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) "Forever" Chemicals Presence in Virginia Drinking Water and Household Usage	Virtual	

Environmental & Earth Science B (HS ENV-B)

SWARTZ 121

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Motley Anne The Impact of Salinity and Temperature on the Total Population and Species Distribution of Jellyfish in the Rappahannock River	Virtual	
9:20-9:40 AM	Zala Nandika The Effect of Varying Amounts of Different Types of Paint, Added to Water, on the Reproductive Rate of Duckweed	Virtual	
9:40-10 AM	(Bauer, Elizabeth) Which Access Point in the James River has the Most Microplastics in the Sediment	In person	
10-10:20 AM	Axtell Garrick The Effect of Pollutants on pH of Water	In person	
10:20-10:40 AM	Break		
10:40-11 AM	Bharti Aneesha, The Effect of Different Types of Microplastics on Radish	In person	
11-11:20 AM	Callahan Elijah The Effects of Natural Based Weed Killers on the Heart Rate of Daphnia magna	In person	
11:20-11:40 AM	Duncan McKenzie The Effect of Nitrogen Filtration on Duckweed Blooms	In person	
11:40-12 AM	Guganathan, Ilakkiya: The Effect of Different Pesticide Amounts on Earthworm Health	In person	
12-1 PM	Jeffers Lecture & Lunch Break		
1-1:20 PM	Hanks Amelia The Effect Biomes and Climates Have on the Preservation of Fossils	In person	
1:20-1:40 PM	Holland Lucas, The Relationship Between Heat and Income in Virginia: A Correlational Study	In person	
1:40-2 PM	Parekh Aesha The Effect of Opuntia ficus-indica on Water Clarity	Virtual	
2-2:20 PM	Phillips Charlotte Investigating Microplastic Trapping Efficiency of Coral Reef Regrowth Structures in Simulated Ocean Currents in the Presence of Modeled Acro	In person	
2:20-2:40 PM	Break		
2:40-3 PM	Royster Lucas, Soil from Different Terrains and Their Amounts of Soil Carbon	In person	no show
3-3:20 PM	Simal Kathryn The Effect of pH on the Disintegration Rate of Coral Skeletons	In person	
	Harvey Casey The Effect of Nonprescription Painkillers on the Stress and Survival of Water Flea Daphnia magna		no show

Environmental & Earth Science C (HS ENV-C)

Please convene by 8:55 AM for Announcements, Virtual Section

	Student Name(s) & Paper Title	
9-9:20 AM	Allen Olivia Potential for Coastal Alkalinity Enhancement Using Calcium Ion Supplementation Under Normal and Acidified Conditions	
9:20-9:40 AM	Christensen Kaylynn Coliform Levels in Aquatic Ecosystems	
9:40-10 AM	Fiorino Anthony -The Effect of Liquid Medium Aeration on the Decolorization of Crystal Violet by Trametes versicolor	
10-10:20 AM	Gebeyehu Samuel, Olabode Victor, Olabode Victoria, The Efficiency of Microbial Fuel Cells in Producing Electricity in Differing Environmental Conditions using Chlorella vulgaris as	No show
10:20-10:40 AM	Break	
10:40-11 AM	Jain Saanvi, The Use of Various Sorbents as an Eco-friendly Oil Spill Treatment	
11-11:20 AM	Kim Hannah The Effect of Microplastics in Soil on Prevalence in Corn Tissue	
11:20-11:40 AM	Maruvanchery Rhea The Effect of Natural Pesticides on Ocimum basilicum's Pest Vulnerability	
11:40-12 AM	Morford Caden Economic Feasibility of a Home Scale Green Energy Storage System Compared to Traditional Battery Storage	No show

12-1 PM	Jeffers Lecture & Lunch Break
1-1:20 PM	Patankar Ishaan Concentration Dependent effects of Endocrine-Disrupting Chemicals on Daphnia Magna
1:20-1:40 PM	Vasudev Aditi The Effect of Natural Water Filtering Materials on the Heavy Metal Concentration in Drinking Water
1:40-2 PM	Walker Mason Determining The Effects of Fiddler Crabs on Spartina alterniflora Based on Height, Density, and Dissolved Oxygen
2-2:20 PM	Welch Stephen SAV's Role in Combatting Climate Change and Nutrient Pollution: A Comparative Analysis on SAV Water Quality Impact
2:20-2:40 PM	Break
2:40-3 PM	White-Barfield Xavier, The Effect of Acid and Lime Fertilizer on Soil Acidity (pH), Soil Quality and Crop Growth: Soybean (Glycine Max) Growth
3-3:20 PM	Wilson Ava The Growth of Barnacles and Other Fouling Species on Various Surfaces in Autumn
3:20-3:40	Casper Carys Everyday Algae: The Effects of Pollutants on Algae Growth

Environmental & Earth Science D (HS ENV-D)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title	
9-9:20 AM	Abuan Jullian The Effect of Differing Obstructions on Wind Erosion	
9:20-9:40 AM	Aggarwal Swati Testing Natural and Store-Bought Stain Removers on Different Color Cotton Fabric	
9:40-10 AM	Foster Anna The Effect of Exposing a Wildflower that is Native to Canada, to Smoke, Over Time, on the Growth of the Plant	
10-10:20 AM	Holmstrom Ann The Effect of Various Types of Bulbs, Used in the Same Light, on the Night of a New Moon, on Star Visibility, Measured Using ImageJ Software	
10:20-10:40 AM	Break	
10:40-11 AM	Kannan Sahana The Effect of Homemade Cleansing Methods on Pesticide Removal from Capsicum	
11-11:20 AM	Kumar Devansh Evaluating Water Pollution Through the Effect of Organic Kelp Fertilizer on Brine Shrimp (Artemia salina)	
11:20-11:40 AM	Lucas Finn Effectiveness of Water Treatment Processes	
11:40-12 AM	Malik Zainah -The Effect of Various Microplastics on Pisum sativum DNA	
12-1 PM	Jeffers Lecture & Lunch Break	
1-1:20 PM	Neuman Hayden The Effect of Photocatalysis on the Purification of Lake Water	
1:20-1:40 PM	Obeng Lauren, Improving Water Conservation in Agriculture: The Potential of Biodegradable Hydrogels	
1:40-2 PM	Shackleford Anne How Salinity and Size Grade Affects the Molting of Blue Crabs	
2-2:20 PM	Wadnerkar Pari The Effect of the Type of Pesticide on the Mortality Rate of Daphnia Magna	No show
2:20-2:40 PM	Break	
2:40-3 PM	Winter Samantha The Effect of Simulated Acid Rain on Shingles	
	Aayush Jindal, The Effect of Ferrofluid on Spilled Oil Extraction From Seawater	Not on program
	Kosek Addie The Influence of Moon Phases on Nocturnal Animal Activity at Christchurch School	

Environmental & Earth Science E (HS ENV-E)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title	
9-9:20 AM	Abigail Fannin A Study of the Difference in Birdsong Frequencies Between Urban and Rural Locations	
9:20-9:40 AM	Bisnath Shiven The effect of Phosphate Based Detergent on Daphnia magna mortality.	
9:40-10 AM	Edassery Kristine The Effect of Quantity of Polyethylene Microbeads on the Concentration of Chlorophyll a in Chlorella vulgaris	
10-10:20 AM	Emma Ho Carbon Capture: The Environment Impact of No-Mow Zones and Forests in Mitigate Greenhouse Gases	No show
10:20-10:40 AM	Break	
10:40-11 AM	Harding Reagan, The Impact of Anthropogenic Noise on Wildlife Biodiversity in Three Different Locations on the Christchurch School Campus	
11-11:20 AM	Hinton, Harrison: Measurement of Biodiversity of Forage Species in the Lower Rappahannock River with Minnow Pots	No show
11:20-11:40 AM	Jablonsky Cecelia, Examination of ants on a local school campus looking at Invasive Species	No show
11:40-12 AM	Janzen Madeline Reef Revival: A Study on the Impacts Made from a Single Reef Compromised by Crassostrea virginica (Virginia Oyster) on the Water Clarity in the Rappahannocl	No show

12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Joyasawal Shriyans A Study on The Affects of Microplastic Concentration on Daphnia Magna Population	
1:20-1:40 PM	Matzky Adelaide An analysis of 3 years of Growth and Carbon Sequestration in Trees at Christchurch School	No show
1:40-2 PM	Murphy Liam, The Effect of Water pH on Microplastics	
2-2:20 PM	Musser Braeden, Levels of Dissolved Oxygen, pH, and Nitrate in Water	
2:20-2:40 PM	Break	
2:40-3 PM	Reed Hass The effect of location on water purity in pH, Ammonia, Nitrates, and Nitrites	
3-3:20 PM	Reyes Alessandra The Effects of Lake Location on the Amount of Heavy Metal Pollution in the Water	
3:20-3:40 PM	Rowan Toner the health of American oysters at the Christchurch School's waterfront	No show
3:40-4 PM	Griffith Grayson How Do PVA and PEG Affect the Regeneration of Planaria Worms?	

Mathematics, Patterns & Relationships (MS MP) Mathematics: Theoretical & Modeling (HS MTM)

GARBER 126

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Bandla Shriya, Vithoulkas Tess Using Modeling Methods to Analyze Environmental Effects on Coral Regeneration	Virtual
9:20-9:40 AM	Evie Elgart: Optimizing Combination Antibiotic Therapy for Localized and Disseminated Lyme Disease	Virtual
9:40-10 AM	Identifying optimal metal-organic frameworks for adsorption-based carbon capture using natural language processing	Virtual
10-10:20 AM	Lach-Hab Nadia, SeizNow: A Highly Accurate Mathematical Model for Automated Diagnosis of Pediatric Seizures	Virtual
10:20-10:40 AM	Break	
10:40-11 AM	Houlihan Logan The Effect of Spoiler Length and Depth on Drag and Downforce	In person
11-11:20 AM	Jaddu Sidh A Novel Framework for Efficient Discovery of Synthesizable, Biodegradable Plastics Using the Simplified Molecular Input Line Entry System and a Tra	In person
11:20-11:40 AM	Minkler Mason Which Satellite Mega-Constellation has the Greatest Impact on Ground-Based Observatories	In person
11:40-12 AM		
12-1 PM	Jeffers Lecture & Lunch	

Medicine & Health A (HS MDH-A)

SWARTZ 122

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Johri Arinan Using SGLT2 Inhibitors to Treat Medically Induced Nephrotoxicity and Kidney Injury	Virtual
9:20-9:40 AM	Coles Victoria Comparing the Effects of Homeopathic Remedies and Antibiotic Vancomycin on S. Epidermidis	In person
9:40-10 AM	Hubbard Clinton The Correlation of Low Heart Rate Training on VO2 Max	In person
10-10:20 AM	Martinez-Goggins Persia The Effect of an Altered Circadian Rhythm on the Reproductive Output of Drosophila melanogaster	In person
10:20-10:40 AM	Break	
10:40-11 AM	Miller Lucas The Effects of Hemp Seed Oil Ingestion on the Life-span of AD-induced Drosophila melanogaster	In person
11-11:20 AM	Parsons Stryder Effect of Nutrients intake on Heartrate Variability	In person
11:20-11:40 AM	Ramsey Claire The Effect of Caffeine on the Inhibition of Growth of Lactobacillus acidophilus	In person
11:40-12 AM	~~Stanley Nalayna, Recovery Methods After a Hard Effort~~	~~In person~~
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Templeton Rebecca The Effects 13-cis-rentinoic acid has on the egg production in Drosophila melanogaster	In person
1:20-1:40 PM	Tibbs Ellie The Correlation Between Beverages Consumed and Mood within High School Students	In person

1:40-2 PM	Ziegler Benjamin The Effect of Sleep on Blood Pressure in Adolescents	In person	
2-2:20 PM	Nath Eshan The Effect of Different Foods on Blood Pressure	In person	
2:20-2:40 PM	Break		
2:40-3 PM	Nock Mia The Effect of Palm Cooling on Pushup Endurance	In person	
3-3:20 PM	Sooriya Nuveena Presence of CB1 Receptors in the Fundus and Antrum of the Stomach	In person	

Medicine & Health B (HS MDH-B)

SWARTZ 102

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Jerry Li Investigating the Molecular Mechanisms of Curcumin's Anticancer Activity	Virtual	
9:20-9:40 AM	Sunilkumar Aditya, The Effect of Synthetic and Natural Bioadhesives on Wound Closure	Virtual	
9:40-10 AM	Kumar Priya Metabolic Dysfunction and Cervical Intraepithelial Neoplasia: Investigating Diabetes as a Risk Factor for High-Grade Squamous Intraepithelial Lesio	In person	
10-10:20 AM	Zunaira Khan of The Effect of Anti-Inflammatory Additives on Simulated Blood Vessel Permeability	In person	
10:20-10:40 AM	Break		
10:40-11 AM	Thompson Nicholas The Impact of Arm Position on Blood Pressure Measurements	In person	
11-11:20 AM	Fulga Ekaterina The Effect of Different Probiotic Food on Digestion Speed	In person	
11:20-11:40 AM	Sarkar Anandi The Effect of Environment on Microplastic Abrasion Via Alkylating Agents	In person	
11:40-12 AM	Shelton Noelle The Effect of Varying Pseudoephedrine Concentrations on Drosophila melanogaster Lifespan	In person	
12-1 PM	Jeffers Lecture & Lunch		
1-1:20 PM	Weston Smith StepSense: Advancing Neuroprosthetic Solutions for Diabetic Peripheral Neuropathy	In person	No show
1:20-1:40 PM	Hunasgi Varidhi The Effect of Different Drinks on Endurance in Sports	virtual	
1:40-2 PM	Chang Leo Galleria mellonella as a Proxy for the Human Immune Response Allium Sativum's Effectiveness against E. cloacae	In person	
2-2:20 PM	Caraher Kylie, The Effect of Different Types of Sports Drink on Heart Rate (bpm)	In person	
2:20-2:40 PM	Break		
2:40-3 PM	Athithi Prakash Novel Engineered Anticancer Biomaterial for Non-Invasive Melanoma Treatment	In person	
	Pollyea Jackson The Effect of Sleep Quality on the Power Output of Youth Cyclists		Not on program r

Medicine & Health C (HS MDH-C)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title	
9-9:20 AM	Chinthakuntla Isha The Effect of Different Ingredients in Moisturizers on Skin Moisture	
9:20-9:40 AM	Elmekharam Ranim The Effect of Natural Antioxidants on Cancer Cell Growth Using Yeast Model	
9:40-10 AM	Jean Ceriyah The Effect of Antioxidants on Skin Health	
10-10:20 AM	Jiyas Eshal The Effect of Spices on Heart Rate (BPM)	
10:20-10:40 AM	Break	
10:40-11 AM	Kore Aditya The Effect of pH Levels on Flintstone Vitamin D Solubility	
11-11:20 AM	Kumareshan Raya Foot Arch Variations Influence Postural Alignment	
11:20-11:40 AM	Liana Poquis The Effect of Different Solutions on Nickel Titanium Wire Integrity	
11:40-12 AM	Mendez Adriana, Jafar Aysha The Effect of Microplastics on the Fertility of Caenorhabditis Elegans	
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Oh Minjun, Said Zareef, Tilahun Abel Nano-therapy A Novel Approach to Electricity Based Neurodegenerative Disease Therapeutics	
1:20-1:40 PM	Pham Song Huong, Subedi Shadikshya, Non-Small Cell Lung Cancer: Machine Learning Models' Ability to Predict Surgical Outcomes	
1:40-2 PM	Psarros Nicholas The Effect of Antioxidants on the Regeneration of Planaria	No show

2-2:20 PM	Ravulaparthi Shaankari A Novel Comprehensive Evaluation of Blood Thinners: Alternative Non-Cardioembolic Stroke Therapy to Minimize Gastrointestinal Bleeding
2:20-2:40 PM	Break
2:40-3 PM	Shariff Asiya Mapping Neural Plasticity in Cognitive Rehabilitation
3-3:20 PM	Elizabeth Zhang, Morphological changes to the pelvic floor muscle complex before, during, and after pregnancy in a murine model

Medicine & Health D (HS MDH-D)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Boles John, The Effect of Screen Time on Sleep Time and Quality.
9:20-9:40 AM	Chandra Nisha The Effect of Different Probiotic Foods on Milk pH
9:40-10 AM	Demchenko Sofia Background Reduction Methods Used on Recipient Kidney Transplant Patient Inflated MFI
10-10:20 AM	Ferry Rebecca Investigating the Correlation Between Bacteria, Student Absences due to Illness, and School Division: An Experiment
10:20-10:40 AM	Break
10:40-11 AM	Goel Ahana Neuromotor Changes Associated with Ashwagandha on Caffeine-Induced Drosophila Melanogaster
11-11:20 AM	Hannah Tober Assessing Personal Care Product Usage by Teens and Identifying Gender-Specific Trends
11:20-11:40 AM	Nareddy Tanvi Deep Learning Radiomics for Predicting Tumor Dynamics in Hepatocellular Carcinoma
11:40-12 AM	Nair Aditi Sleep and Parkinson's: A novel computational approach to predict the incidence of Parkinson's Disease
12-1 PM	Jeffers Lecture & Lunch
1-1:20 PM	Olihnenco Abigail of The Effect of Exercise on Heart Rate
1:20-1:40 PM	Patel Hari The Effect of Type of Exercise on Heart Rate
1:40-2 PM	Sangerpal Suhana The Effect of Different Acne Medications on Escherichia coli Culture
2-2:20 PM	Sheth Dhanvi Anatomical Correlation between Ulnar Neuropathy and Triceps in Electrodiagnostic Studies
2:20-2:40 PM	Break
2:40-3 PM	Smith Grady The Effect of Disease Spread Prevention methods on Public Perception
3-3:20 PM	Tiwari Stuti The Effect of Simulated Stomach Acid on Tooth Enamel

Microbiology & Cell Biology A (HS MCB-A)

BECKHAM 101

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Farsin Reanna The Effect of Using Saccharomyces vs. Non-Saccharomyces Yeast on the Rate at which Fermentation Occurs, Measured Using a Fermentation T	Virtual	
9:20-9:40 AM	Kaur Bhoomika Targeting RAGE: A Novel Therapeutic Strategy Against AGE-Mediated Prostate Cancer Progression	Virtual	
9:40-10 AM	Kumar Deepanshi Investigating the Overlap Between Alcohol Response Genes and Behavioral State Genes in C. elegans Using CRISPR-Cas9 Gene Editing anc	Virtual	
10-10:20 AM	Tuteja Hargun The Effect of Asparagus Racemosus Concentration on Daphnia Magna Condition	Virtual	
10:20-10:40 AM	Break		
10:40-11 AM	Verghese Vivien The Effect of Cooking Methods on Vitamin C in Broccoli	Virtual	
11-11:20 AM	Camarda Andrew The Science of Sanitation	In person	
11:20-11:40 AM	Sales Lamarra The Effect of Fluoxetine and GABA on Planaria	In person	
11:40-12 AM	Xie Daniel Vanillin and Vanilla Extract-Infused Mouthwash in Inhibiting Quorum Sensing of S.mutans Dental Plaque Biofilms	In person	
12-1 PM	Jeffers Lecture & Lunch		
1-1:20 PM	Wemyss Sean Can Spices Inhibit Bacterial Growth?	Virtual	
1:20-1:40 PM	Yalamanchili Sanvi The Effect of Types of Sugar on Bakers Yeast Growth	Virtual	
1:40-2 PM	Yavuz Arzu, How does varying temperature affect lactase enzyme activity, as measured by changes in glucose levels?	Virtual	No show

2-2:20 PM	Yue Lindsey The Effect of DIfferent Fabric on Yeast Growth Under Ultraviolet Radiation	Virtual	
2:20-2:40 PM	Break		
2:40-3 PM	Allyn Noah - Know Your Enemy: The Effect of Different DNA Repair Mechanisms (Induced via CRISPR-Cas9) on Streptomycin Resistance Acquisition in Escheric	Virtual	
3-3:20 PM	Taarun Ganesh Computational design of an epitope-based vaccine for Merkel cell carcinoma with E. coli and lambda phage display	In person	
3:20-3:40 PM	Tivare Kriesh Development of Device for Modulating Antibiotic Response and Bacterial Growth Using Oscillating Compound Magnetic Fields	In person	

Microbiology & Cell Biology B (HS MCB-B)

BECKHAM 103

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Dewan Yana The Effect of Varying Urea 46-0-0 Concentrations on the Growth of Chlorella vulgaris	Virtual	
9:20-9:40 AM	Kelley Sydney The Effect of Copper Sulfate on Daphnia	Virtual	
9:40-10 AM	Levorson Madeline Development and Refinement of a Novel Rapid Phage Screening Protocol to Accelerate Bacteriophage Discovery and Offer Alternatives for A	Virtual	
10-10:20 AM	Patel Vir The Effect Of Fruit Peels on Bacteria Removal In Water	Virtual	
10:20-10:40 AM	Break		
10:40-11 AM	Poondru Krithik The Effect of Influenced Water on Bacterial Growth on Spinach	Virtual	
11-11:20 AM	Prabhanand Lalantika, The Effect of different herbs on growth of aerobic bacteria	Virtual	
11:20-11:40 AM	Sambangi Saanvi The Effect of Different Medicinal Oils on Planaria Regeneration	Virtual	
11:40-12 AM	Shetty Darsh The Effect of Different Decontamination Methods on Purity of Water	Virtual	
12-1 PM	Jeffers Lecture & Lunch		
1-1:20 PM	Tirunahari Shruthi The Effect of Acne Medications on S. Epidermidis	Virtual	
1:20-1:40 PM	Smith Gavin The Effect of Pestalotiopsis Microspora on the Biodegradation of Plastics	In person	No show
1:40-2 PM	Chaudhry Sarah The Effects of Colored Lighting on CRISPR Effectiveness	In person	
2-2:20 PM	Chen Jasmine A Comparison of the Antifungal Properties of Different Materials Found in Hospitals for Invasive Fungal Infections	In person	
2:20-2:40 PM	Break		
2:40-3 PM	Joshua Osemobor Environmental Limiting Factors of the Plankton Paradox	In person	
	Chavez Sophia, Effects of High-Density Polyethylene on Chlorella		not in program no
	Patil Aryan The Effect of Turmeric Concentrations on Planarian Regeneration		not in program no

Microbiology & Cell Biology C (HS MCB-C)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title	
9-9:20 AM	Adusumilli, Ritvik - Effectiveness of B-Lactam Antibiotics Combined with Clavulanic Acid Against Escherichia (Resistance)	
9:20-9:40 AM	Amerson Henry The Effect of Adding Varying Amounts of Vitamin B12 to a Culture of Saccharomyces cerevisiae on the Amount of CO_2 Produced by Fermentation	
9:40-10 AM	Baba Nina - The Effect of Different Plant Extracts on the Growth of E. coli	no show
10-10:20 AM	Beeravalli Neha, The Effect of Types of Protease Inhibitors on Guinea Pig Sperm Acrosomal Matrix Disassembly	
10:20-10:40 AM	Break	
10:40-11 AM	Burukunte Aarush The Effect of Time on Floor on Bacterial Growth	
11-11:20 AM	George Shaun, The Effect of Light Wavelengths on Chlorella Vulgaris Fresh Mass	
11:20-11:40 AM	Hoffman Lilah The Effect of Temperature (20°C-60°C) on the Reaction Rate of a Lipase-Catalyzed Reaction, as Measured by Change in pH Over Time.	no show
11:40-12 AM	Jeevan Gutta The Effect of Different Environments on Bacterial Growth on Toothbrushes	
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Lugo Alexei The Effect of Fertilizer and Temperature on Algae Growth	
1:20-1:40 PM	Manikandan Saranya The Effect of Spice on Bacterial Growth	
1:40-2 PM	Moret Sophie Temperature Variations on Mouth Digestion	

2-2:20 PM	Nayak Aarav Effect of Antibacterial Soap & Generic Soap on Rhodospirillum rubrum		
2:20-2:40 PM	Break		
2:40-3 PM	Shah Ayona The Effect of Diet Composition on Yeast Growth and Activity		
3-3:20 PM	Tonpay Aaryan The Effect of Different Carbohydrates on Soreness and Lactic Acid Production		
3:20-3:40 PM	McDonald Jaxon Using Lavender as a Natural Preservative to Prevent Fungal and Microbial Growth		no show

Physics & Astronomy A (HS PHY-A)

BECKHAM 203

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Bright Shane Exploring Continuous Wave Laser-Generated Combustion Spectroscopy: developing a cost-effective metal identification system	In person	
9:20-9:40 AM	Zhang Kevin From Theory to Observational Results: Baryon Acoustic Oscillations Detected at High Redshift Ranges	In person	
9:40-10 AM	Pratt Lydia Effects of Coatings on the Ultrasonic Testing of Welds on Structural Steel	In person	no show
10-10:20 AM	Barron Bryce The Effectiveness of Eco-Friendly Materials in Sound Damping	In person	
10:20-10:40 AM	Break		
10:40-11 AM	Mecom Addison Effect of Temperature and Humidity on Road Traffic Noise	In person	
11-11:20 AM	Dahal Anuj, DiMattina Kevin, Kutlan Oguzkhan Project Icarus: A Design and Development of Rocket Nozzles for High Pressure Atmospheres	In person	
11:20-11:40 AM	May Landon - How Soccer Headgear Affects Impact Forces	In person	
11:40-12 AM	Biesterveld Emma How Spin Rate Affects the Velocity of a Pitch and What Is the Main Correlation Between Them	In person	
12-1 PM	Jeffers Lecture & Lunch		

Physics & Astronomy B (HS PHY-B)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Armstrong Dylan The Effect of Roller Coaster Carts of Varying Heights/Centers of Gravity on Roller Coaster Speed and Distance Traveled
9:20-9:40 AM	Barker Cara The Effect of Dropping Various Brands of Volleyballs, All Inflated to the Same Pressure (kPa), on the Bounce Height of Each Brand
9:40-10 AM	Booth Tre Safety and Performance When Comparing Natural Grass and Artificial Turf While Performing Various Athletic Movements
10-10:20 AM	Khan Minnah The Effect of Various Surfaces on the Amount of Force in Newtons Required to Slide a Pine Wood Block Across Each Surface
10:20-10:40 AM	Break
10:40-11 AM	Legutko Joe The Effect of Satellite Trails on Astrophotos
11-11:20 AM	Lessa Bowers The Effect of Passing Electricity Through Various Types of Insulators, Using a Van de Graaff Generator, on the Height and Width of the Resultant Lichtenberg Figures, as Well as the I
11:20-11:40 AM	Nguyen Minh Optimizing Meta-Atoms for Large Scale Metalenses
11:40-12 AM	Nigriny James The Effect of Amount of Scuffing of a Baseball on Speed of the Ball and Percentage of Pitched Balls that are Found Within the Strike Zone
12-1 PM	Jeffers Lecture & Lunch
1-1:20 PM	Pounds Collin The Effect of Elevation Above Sea Level on Distance a Football Travels, When Launched

Psychology A (HS PSY-A)

LIBRARY 201

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM	Gross, Asher The Effect of Time Slept on a Vigorous Exerciser’s Resting Heart Rate the Following Day	Virtual	no show
9:20-9:40 AM	Jurkow Jillian Impact of Type One Diabetes on Caretakers' Wellbeing	in person	

9:40-10 AM	Apkarian Anna The Correlation Between Religious Involvement and Self-Esteem	In person
10-10:20 AM	Khan Mohammed The Effect of Age Groups on the Development of Lying	In person
10:20-10:40 AM	Break	
10:40-11 AM	Maas Lorelei, Relationships Between Collegiate Cheerleading, Eating Habits, and Self-Esteem	In person
11-11:20 AM	Mancier John-Paul The Relationship Between Music Tempo and Shopping Behavior	In person
11:20-11:40 AM	McCloskey, Anna -The Influence of Age on the Cognitive Processes Related to Retention	In person
11:40-12 AM	Molly Morris The Correlation Between Milk Packaging Types and Human Perception of Quality and Price	In person
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Padala Abhinav The Effect of Running on Cognitive Abilities	In person
1:20-1:40 PM	Sexton Aiden The Correlation Between Academic Burnout and High School Students' Academic Performance	In person
1:40-2 PM	Singh Abhay The Effect of Lifestyle Factors on Mental and Behavioral Attributes	In person

Psychology B (HS PSY-B)

LIBRARY 202a

Please convene by 8:55 AM for Announcements, In person section

	Student Name(s) & Paper Title	
9-9:20 AM	~~Black Evan The effects of "middle-child syndrome" on academic performance and self-esteem~~	~~In person~~
9:20-9:40 AM		
9:40-10 AM	Ferguson Iyla The Correlation of App Usage and Adolecent Anxiety	In person
10-10:20 AM	Henry Esmarie The Effect of Different Noise on Ability to Focus	In person
10:20-10:40 AM	Break	
10:40-11 AM	Kailey Eagle The Connection between Trauma and Addiction	In person
11-11:20 AM	Nguyen Kendra The Effect of Music and Background Noise on Handwriting Speed	In person
11:20-11:40 AM	Ordower Elana The Correlation Between Font Color and Perception of the Underlying Meaning of the Text	In person
11:40-12 AM	Rai Bisan, The Correlation Between Nicotine Patch Usage to Episodic Future Thinking and Contingency Management within a Research Environment	In person
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Sajish, Smyan The Effect of Different Ways of Receiving Information on Retention	In person
1:20-1:40 PM	Wilbon Olivia The Relationship Between a Guardian's Level of Preparation for Change and the Career Goals Their Dependent Holds	In person
1:40-2 PM	Debnath Tanusiya A Comparative Study of Psychosocial, Socioeconomic, and Lifestyle Determinants on Recovery Capital in Addiction Rehabilitation	In person

Psychology C (HS PSY-C)

Please convene by 8:55 AM for Announcements, Virtual section

	Student Name(s) & Paper Title	
9-9:20 AM	Lateef Rania, Scents and Sensibility	
9:20-9:40 AM	Bacon Paris How A Student’s Academic Ability and Age Affects their Likelihood of Conformity	
9:40-10 AM	Craig Crawford, Effects of High School Student Athletic Participation on Academic Stress	
10-10:20 AM	Deane Sydney Impact of Alternative Marketing Strategies on the Perception of Shelter Animals	no show
10:20-10:40 AM	Break	
10:40-11 AM	Failmezger Maxwell The Effect of Attire on Tipping Behavior in the Music Industry	
11-11:20 AM	Hollandsworth Trent, The Effects of Different Auditory Notifications on Reading Comprehension	no show
11:20-11:40 AM	Kim Rojin The Effect of Noises on a Person’s Cognitive Ability	
11:40-12 AM	Meredithe Nourse The Effect of Exercise on Test Taking Decisions	
12-1 PM	Jeffers Lecture & Lunch	

1-1:20 PM	Mishra Aarya The Effect of Nature Videos on Mental Fatigue		
1:20-1:40 PM	Mukhtar Kareem The Effect of Different Audio Based Environmental Stimuli on Cognitive Function		
1:40-2 PM	Pothunoori Hridhay Effect of Respiratory Techniques on Cortical Brain Activity Through Electrorencephalography		
2-2;20	Scott Samantha The Effect of Different Scents on Human Efficiency		
2:20-2:40 PM	Break		
2:40-3 PM	Yalamanchili Siddarth A Quantitative Comparative Analysis of Robot Enhanced Therapy (RET) and Standard Human Therapy (SHT) in Modulating Movement Dynamics in Childrer		No show
3-3:20 PM	Zagorodnyuk Alina -The effects of Equine-assisted therapy on BAI scores		

Statistical Analysis & Inferences (HS SAI)

GARBER 126

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title		
9-9:20 AM			
9:20-9:40 AM			
9:40-10 AM			
10-10:20 AM			
10:20-10:40 AM	Break		
10:40-11 AM			
11-11:20 AM			
11:20-11:40 AM			
11:40-12 AM			
12-1 PM	Jeffers Lecture & Lunch		
1-1:20 PM	Frias Gabriel Comparative Analysis of Television, Radio, and Newspaper Advertising on Consumer Behavior	In person	
1:20-1:40 PM	Stanbery Parker Nutrition and Inequality: How Demographics Effect Dietary Supplement Use	In person	
1:40-2 PM	Chen Tyler A Statistical Study of Potential Economic Impact of Virginia Demographic Change	Virtual	
2-2:20 PM	Layne Ashley, Exploring the Relationship Between Household Income and Type of Pet Owned	Virtual	no show
2:20-2:40 PM	Break		
2:40-3 PM	Piche Lyra English Place-Names and Viking Activity	Virtual	
3-3:20 PM	Madilyn Marsden Correlation Study Among Students who Attended Montgomery County Public Schools (MCPS) Early Childhood Education with Current Senior C	Virtual	no show
3:20-3:40 PM		Virtual	
3:40-4 PM	Stephens Kyle - Change in Throwing Performance Throughout the History of the Olympics	In person	

Zoology (HS ZOO-A)

LIBRARY 202b

Please convene by 8:55 AM for Announcements, Hybrid section

	Student Name(s) & Paper Title	
9-9:20 AM	Riffe Lilly Utilizing Micro Artificial Reefs to Improve Biodiversity in the Chesapeake Bay	Virtual
9:20-9:40 AM	Nguyen Ngo TanAn, The Effect of Obstacles on Slime Mold Navigation Abilities	Virtual
9:40-10 AM	Opoku Jaiden The Effect of Honey on Planaria Survival	Virtual
10-10:20 AM	Poovathukaran Noah The Effect of Fat Soluble Vitamins on Planaria Regeneration	Virtual
10:20-10:40 AM	Break	
10:40-11 AM	Mohammed Ayaan The Effect of pH, Serotonin, and Electricity on the Regeneration of Planaria (mm)	Virtual
11-11:20 AM	Das Subhransu The Effect of Various Vitamins on Planaria Growth and Regeneration	In person
11:20-11:40 AM	Easter Ethan Determination of the Effects of Light Pollution and Subsequent Circadian Disruption on Palaemonetes paludosus Algal Consumption Rates	In person

11:40-12 AM	Kumar Priya The Effect of different concentrations of liquid berberine on the heart rate of the Daphnia magna	In person
12-1 PM	Jeffers Lecture & Lunch	
1-1:20 PM	Shah Nishka, Kim Justin, The Impact of Storm-Driven Hyposalinity Cycles on Coral Thermotolerance in Warming Oceans	In person

Zoology (HS ZOO-B)

Please convene by 8:55 AM for announcements, Virtual section

	Student Name(s) & Paper Title
9-9:20 AM	Barathi Saravanan The Effect of Endocrine Disruptors on Reproduction of Drosophila melanogaster
9:20-9:40 AM	Croxford Bryce The Effect of Microplastic Concentration on Food Preference in Planaria
9:40-10 AM	Emily Paul The Effects of Heavy Metal Contaminants on Negative Phototropism Behaviors in Ephemeroptera Species
10-10:20 AM	Fryer Hannah The effect of titanium dioxide nanoparticles on the reaction time of Dugesia dorotocephala upon exposure to light
10:20-10:40 AM	Break
10:40-11 AM	Garnett Elle, Effects of Microplastic Consumption on Dark Wing Beetle Larvae Growth and Development
11-11:20 AM	Kyla Williams The Effect of Using Dead Leaves vs. Green Leaves, in a Pillbug Habitat, on Pillbug Choice
11:20-11:40 AM	Manojkumar Vertika, The Effect of Various Spices on the Regeneration Rate of Planaria
11:40-12 AM	Milsted Elena The Effects of Differing Macronutrient Ratio Consumption on the Canine Oral Microbiome
12-1 PM	Jeffers Lecture & Lunch
1-1:20 PM	Nguyen Ngo TanAn, The Effect of Black Coffee and Tylenol on Planarian Regeneration
1:20-1:40 PM	Gitre Xavier Interspecific Social Networks of Parulidae Warblers in Active Migratory Passage
1:40-2 PM	Ahmad Sajeela The Effect of Atrazine on the Heart Rate of Daphnia magna

Not on program

ıo show

show

show

Number of Individual Branches