

PRESENTER LAST NAME(S)	PRESENTATION TITLE	TIME	SESSION
Adamson & Lipford	1) The influence of mechanical leaf removal on growth, biomass, grain yield, and nutrient value of mung bean (<i>Vigna radiata</i>) 2) The influence of mechanical leaf removal on growth, biomass, grain yield, and nutrient value of mung bean (<i>Vigna radiata</i>)	2-3	Agriculture & Life Sciences
Alexander, A	Single Cell RNAseq Analysis Identifying Neurons in Response to Stress	9-10	Biological & Biomedical Sciences
Alexander, T	Does big data bring opportunity, bias, or both for conservation? Exploring open access species occurrence data	9-10	Biological & Biomedical Sciences
Alfaro Carballo	Covid-19 and Undocumented College Students: Challenges, Resources, and Recommendations	9-10	Biological & Biomedical Sciences
Alms	The effect of <i>Mycoplasma gallisepticum</i> infection on feather quality and maintenance in house finches (<i>Haemorhous mexicanus</i>)	9-10	Biological & Biomedical Sciences
Apple	The Effect of Psychiatric Disability and Sibling Age Gap on Sibling Relationships	11-12	Liberal Arts & Human Sciences
Arun & Dillard	Nest AI	1-2	Engineering
Attreed	A Systematic Review of Interventions Targeting Irritability Among Depressed Children and Adolescents	10-11	Psychology
Beard	Callogenesis, rhizogenesis, and Agrobacterium-mediated transformation of <i>Cannabis sativa</i> L.	2-3	Agriculture & Life Sciences
Berkley	Bon Appetit!: How Julia Child Transformed American Culinary Culture	11-12	Liberal Arts & Human Sciences
Bowinkle	Investigating the Distribution and Biosynthesis of a modified cofactor F430 in <i>Methanococcus maripaludis</i>	12-1	Biochemistry
Bradford	Harvest sustainability and practices of two Southern Appalachian medicinal species (<i>Sanguinaria canadensis</i> and <i>Trillium erectum</i>)	9-10	Biological & Biomedical Sciences
Byrns, Fyfe, Iddings & Coury	Utilizing the Virtual Premortem Focus Group Method to evaluate a Brief Emotion Regulation Training (BERT) for emerging adults	2-3	Agriculture & Life Sciences
Carrick & Lee	Comparing effects of creep feeding vs. creep grazing on cow and calf weight gain	2-3	Agriculture & Life Sciences
Carter	America or America? A study of topic-based shifting in a US expat in London	11-12	Liberal Arts & Human Sciences
Chakrabarti, Le & Lagaad	Merging Soft-Robotics with Deep Learning in Replicating the Biosonar-Sensing Capabilities of Bats	1-2	Engineering
Collins	Using Virtual Screening to Develop Predictive Models to Discover Novel Partial Agonists of PPAR γ	12-1	Biochemistry
Coury, Sysawang, Byrns & Keller	Considerations for Methodological Integrity and Participant Safety when Transitioning Qualitative Focus Group Method to a Virtual Platform	2-3	Agriculture & Life Sciences
Covington, E, Tollefson, Elhachem, Duma & Burgos	The Innovation of mRNA	3-4	Orion LLC projects
Covington, T, Metpally, De Vera, Grocock, Tran, Drapac, Teel, Johnson, Ayaz & Bir	How do we perceive and learn from robots?: Implications of the "Uncanny Valley" effect on learning	11-12	Liberal Arts & Human Sciences
Cox, Forsyth & Cho	Developing a Standalone Deep-Learning Enabled Bio-Mimetic Sonar Control System	1-2	Engineering
David, Jensen, Vincent, Johnson, McCaffrey, Payne & Pritt	Science of Wellbeing Project	3-4	Orion LLC projects
Davis	Universities vs. COVID-19: A Community- Wide Prevention Measure Analysis of At Risk vs. Non Risk Areas	10-11	Psychology
Day	Cyberbiosecurity Factsheets for Middle School Educators	2-3	Agriculture & Life Sciences
DeFoor	Under-expression of immune system genes in ovarian tumor samples with a rare mutation in FAM104A	9-10	Biological & Biomedical Sciences
DeSimone & Briganti	Combating Antibacterial Resistance: Characterizing Antibiotic Binding Pockets to Advance Bidentate Design	12-1	Biochemistry
Dickey, Hammer, Miller, Serrano & Woodall	Genetics and Biotechnology: JELL-O-electrophoresis	3-4	Orion LLC projects
Ding, Sargent, Hinds, Suchman & Liu	The Effects of Coding and Technological Advancements on the Professional Lives of Modern Society versus the People of the Past	3-4	Orion LLC projects
Dolby, Tran & Warwick	Effects of Redlining on the 1983 Chicago Mayoral Election	12-1	Biochemistry
Duma, B	Whitewater Helmet STAR: Evaluating the Biomechanical Performance and Risk of Head Injury for Whitewater Helmets	11-12	High school projects
Duma, L	Proposed Injury Threshold for Drone Blade Lacerations	1-2	Engineering
Duncan	Differential Expression Analysis and Modeling of T Cell Differentiation Pathways	9-10	Science
Dunn	ADHD Status and Biological Sex as Predictors of Change in Adolescent Executive Functioning	10-11	Psychology

Elias	Use It or Lose It: An Analysis of Unnecessary Spending in Flexible Spending Accounts	11-12	High school projects
Elliott	Using Molecular Dynamics to Determine Influence of HIV-gp41 Cytoplasmic Tail Region Length on Protein-Membrane Stability	12-1	Biochemistry
Farese & Parks	Impact of Automated Vehicle External Communication on Other Road User Behavior	1-2	Engineering
Farzan & Davis	Synthesis of Oxygen-Based Ligands for C-H Bond Activation Catalysts	9-10	Science
Faunce	Single Nucleotide P129T Mutation Shows Susceptibility to Problematic Substance Use in Mice	9-10	Science
Fike	Antithrombin Medicine Methods Effectiveness	11-12	High school projects
Fontanella, Athanasaw, Decker, Yost & Nix	Fossils and Phylogenies: The Evolution of Darwin, the Very Scary Monster!	3-4	Orion LLC projects
Fregoso	College Sibling Relationship Closeness	11-12	Liberal Arts & Human Sciences
Gaito	In Silico Analysis of POMC and NPY promoters: The Role of Methylation in Environmental Triggers of Obesity	2-3	Agriculture & Life Sciences
Gillen, Black-Planas, Fellman, Peters & Levy	The Effects of the 1986 Space Shuttle Challenger Disaster on the Economic and Safety Aspects of Spacecrafts and Space Exploration.	3-4	Orion LLC projects
Gilmore	Organizational Safety Culture: Exploring Differences Between English & Spanish Speaking Workers	11-12	High school projects
Gonzalez & Taylor	Enhancing Regeneration Efficiency Using Inducible Expression of Modified Auxin Response Factor Transcription Factors	2-3	Agriculture & Life Sciences
Greenberg, Parker & Kingry	Heat Switch	1-2	Engineering
Grzelak	Future Climate Change Projections in Virginia	1-2	Engineering
Guner	Call for Improved Equity and Inclusion in College of Agriculture and Life Sciences	2-3	Agriculture & Life Sciences
Haldankar & Kuppa	A Walk Down Memory Lane: Analysis of Memory and Computer Systems From 1995 to Present-Day	1-2	Engineering
Hameed	The Local Food Hub Food Safety Outreach Program (FSOP) 2019	2-3	Agriculture & Life Sciences
Hammond	The Impact of Comorbid Depression on Self-Concept in Anxious Youth	10-11	Psychology
Hasan	COVID-19 as Social Murder: An Investigation of Racialized Bodies in America	11-12	Liberal Arts & Human Sciences
Heatwole, Florence, Robinson, Newton & Fulgueiro-Fuchs	Analyzing Stroubles Creek Water Quality Through Macroinvertebrate Identification in Blacksburg, Virginia	3-4	Orion LLC projects
Hodge & Claesson	Kicking Assets	1-2	Engineering
Honaker	The association between intolerance of uncertainty and mental health outcomes during the COVID-19 pandemic in children and adolescents with neurodevelopmental disorders in rural Appalachia	10-11	Psychology
Hynes	Quantifying co-infection of Mycoplasma gallisepticum and coccidia in wild house finches	9-10	Biological & Biomedical Sciences
Jadooram	Exploring the Role of Parent Psychopathology and Parenting Behaviors in Children's Reading and Writing Abilities	10-11	Psychology
Jarvis	The Role of Pet Ownership in the Mental Health of Children and Adolescents During the COVID-19 Pandemic	10-11	Psychology
Jensen	An Investigation of Associations between Adverse Childhood Experiences and Quality of Life in Autistic and Non-Autistic youth	10-11	Psychology
Jung	Assessing and Evaluating the Atomistic Interaction differences between Sphingosine and Inhibitors for Sphingosine Kinase Druggability	12-1	Biochemistry
Kawas	Modeling the pathogenesis of adenoviral myocarditis	9-10	Biological & Biomedical Sciences
Keller, Murray & Shaw	Exploring treatment outcomes for low-income patients in a rural community-based clinic	10-11	Psychology
Lagad, Devarashetty, Chitre & Scurlock	Development of Soft Robotic Actuation System for Biomimetic Dynamic Sonar Head	1-2	Engineering
Le, Gong, Grygotis, MacLeod, Weaver, Shailly & Shaw	Tendon Actuation System for a Soft-Robotic Bat Head	1-2	Engineering
Lee	Evaluating Loneliness Scales to Assess Loneliness During the COVID-19 Pandemic	11-12	High school projects
Leedy	Differential expression of genes associated with innate immunity in individuals with and without Alpha-gal Syndrome	11-12	High school projects
Lewis	Carbon Storage in Northern Virginia Grasslands: Effects of Land Management and Plant Diversity	2-3	Agriculture & Life Sciences
Martin	Microplastic Ingestion Frequency Analysis on Freshwater Fish Trophic Levels in the New River Valley	2-3	Natural Resources & Environment
Metpally	Using a mindful lifestyle intervention to help improve maternal and infant outcomes in obese pregnant women	2-3	Agriculture & Life Sciences

Midkiff	Finding a Correlation Between Temperature and Melt Pool Size in Laser Additive Manufacturing	11-12	High school projects
Mistry	Brain Computer Interfaced Prosthetics	1-2	Engineering
Mohamed	Expression and Characterization of Plasmodium falciparum Protein Depalmitoylase ABHD17A	12-1	Biochemistry
Mukora	Applying Predictive Modeling to Enhancing Solar Energy Efficiency	12-1	Biochemistry
Mundt	Stopping the Stigma: Ethnobotanical Research on Southern Appalachian Species as Gynecological Aids	9-10	Biological & Biomedical Sciences
Murray	Understanding the Roles of Amphipathic Alpha-Helices in Membrane Association and Viral Genomic Replication of Brome Mosaic Virus Protein 1a	2-3	Agriculture & Life Sciences
Nguyen, Spinetta, Adhikari, Truong & Wolf	Surface Autonomous Vehicle Emergency Response (SAVER)	1-2	Engineering
Nimmakayala	De-Icing of Composite Beams under Pure Bending	1-2	Engineering
O'Hara, Applebach, Munford, Chavarro & Zhao	Engaging Students in Science through Distance Learning	3-4	Orion LLC projects
Oliver	A Systematic Observations of Facemask Wearing and Interpersonal Distancing: Risk Compensation vs. Response Generalization	10-11	Psychology
Ortiz Alvarado	Sequestration of Chemotherapy agents Using Bioinspired Polymers	9-10	Science
Paasch, Thompson, Walsh, Webster, Presby & Filippone	Dog Behavior Project	3-4	Orion LLC projects
Pereira, Kenny, Grann, Verma & Bowyer	Virtual vs. Physical Company: The Effect on Mood	3-4	Orion LLC projects
Pimental, Foulks , Meltvedt, Brenza & Meno	Investigating the influence of embedded copper defects on tensile strength of quasi-isotropic fiberglass epoxy composites	1-2	Engineering
Pugh	Sexual Violence: Impact on Academic Success and Financial Stability	11-12	Liberal Arts & Human Sciences
Quion	Evaluating Future Climate Change Impacts in Virginia	9-10	Science
Ramirez	Functional Analysis of Mutated N-terminal Serine Residues in Amino Acid Permease I (AAPI) from Arabidopsis thaliana	2-3	Agriculture & Life Sciences
Reed	Spatial Analysis of Salinity in Stroubles Creek, Blacksburg, VA	1-2	Engineering
Rodriguez, Poulos & Brennan	InsulPatch: Insect-inspired powerless drug delivery	1-2	Engineering
Rosser	Mentorship in a Sustainability project for first-generation and underrepresented undergraduates	2-3	Agriculture & Life Sciences
Samanta	A Renewal of Hope: Proposed Glial Cell Treatment for Alzheimer's Disease	11-12	High school projects
Schloer & Franklin	Acousto-Optic Nondestructive Inspection (AONDI)	1-2	Engineering
Schumacher	Spinster 2 (SPNS2) Transport Protein: Visualizing and Observing Solvent Flow, Ion Transportation, Interacting Residues, and Protein Structure Stability	12-1	Biochemistry
Seeley	Increasing Methionine Content in Soybean Seed through a Genomic Prediction Model	2-3	Agriculture & Life Sciences
Segnari , Dharamshi, Morse & Nguyen	Benthic Macroinvertebrates as Stroubles Creek Water Quality Indicators	3-4	Orion LLC projects
Smith	COVID-19 and its Impact on Technology use and Social Interactions within College Students	10-11	Psychology
Snead	Assessing Microbial Wastewater Community Composition and Antibiotic Resistance in the Presence of Hospital Sewage	1-2	Engineering
Soscia , Gravley & Moon	SARS-CoV-2 infected laboratory mice and their impact on transmissibility between bedding and infected species	2-3	Agriculture & Life Sciences
Spetch, Zeidan, Weed, Higgins & Scharff	Molecular Docking	3-4	Orion LLC projects
Stafford, Fedorko, Snow & Singh	The Impact of Glyphosate on Human Health	2-3	Agriculture & Life Sciences
Starks	Can Dark Matter Heat Up the Earth?	9-10	Science
Stitzer	Analysis of Jaguar Home Ranges Via a Novel Application of Spatially Explicit Capture-Recapture	2-3	Natural Resources & Environment
Sweeney & Ayala Rodriguez	Life Satisfaction in Individuals of Siblings with Physical or Psychiatric Disabilities	11-12	Liberal Arts & Human Sciences
Taylor, Purtil, Yu, Saunders, Carroll, DeFoor, Greenman, Harrison, Koogle & Leung	Diners, Drive-Ins, and Dialects	11-12	Liberal Arts & Human Sciences
Thapar, Tsui & Bolden	How (Skin) Deep is Your Love? Touch Types Used to Communicate Distinct Emotions	10-11	Psychology
Thoms, Endale, Cherukuri, Chowdhury & Hubli	Assessing Dog Behavior and the Ability of Owners to Identify Stressors	3-4	Orion LLC projects
Tucker	The Effects of Social Media Use on Social Connectedness, Mental Health, and Risk Taking Behaviors During COVID-19 Stay-At-Home Orders in Adolescents with and without ADHD	10-11	Psychology
Tuhy, Paulsen & Russell	Meta-Analysis of the Formalin Pain Test	9-10	Science
Tunchanat	Biochemical characterization of aminomutases involved in salt tolerance in methanogenic archaea	12-1	Biochemistry

Turner, Gosselin, Randall, Hackney & Sams	Molecular Docking	3-4	Orion LLC projects
Turton	The Impact of COVID-19 on Post Traumatic Stress Disorder Symptomatology in Adolescents with and without ADHD	10-11	Psychology
VanWinkle	Development of an attractive toxic sugar bait for the control of <i>Aedes j. japonicus</i>	12-1	Biochemistry
Varella	Does a lower socioeconomic status (SES) score have an effect on the change of temporal window and alcohol valuation?	10-11	Psychology
Varga	Implementing Numerical Solutions of ODEs to Aerospace Purposes to Highlight Engineering Multidisciplinarity	1-2	Engineering
Wang	Investigating Trends in the Multiple Ligand Activation of PPAR Gamma	11-12	High school projects
West	The Effect of pH and symbiont density on outcomes in a cleaning symbiosis	9-10	Biological & Biomedical Sciences
Woehrle, Khullar, Crocker & Rand	Autonomous Drone Navigation and Mapping	1-2	Engineering
Woodhouse	TBA	9-10	Biological & Biomedical Sciences
Xie	Classification of Neurons by Activation Stages using an Artificial Neural Network	11-12	High school projects
Zobel	Determining Perceptions of Appalachian English among Non-Speakers Living in Appalachian Virginia	11-12	High school projects