

<b>9:00-9:30am</b>	Check-in (Goodwin Atrium) Poster Session 1 set up		
<b>9:30-9:40am</b>	Welcome- Keri Swaby (Goodwin Auditorium)		
<b>9:40-10:15am</b>	Keynote Address- Dr. Deborah Good (Goodwin Auditorium)		
<b>10:15-10:20</b>	Break		
<b>10:20-11:20</b>	<b>Poster Session 1 (Goodwin Atrium)</b>		
<b>Presenter(s)</b>	<b>Presentation Title</b>	<b>Program Affiliation</b>	<b>Poster #</b>
Erik Akbar	The Effects of Microglial Depletion on HPA-Axis Activity in a Larval Zebrafish Model	neuroSURF	1
Kylea Andreano	Liver sinusoidal endothelial cells in non-alcoholic steatohepatitis	NIDDK Translational Obesity Undergraduate Research Summer Scholars	2
Anissa Ashraf	Medication Adherence, Health Behaviors, and Delay Discounting in Hormone Receptor-Positive Breast Cancer Survivors	NIDDK Translational Obesity Undergraduate Research Summer Scholars	3
Maame-Owusua Boateng	Connexin43 Increases its Hemichannel Activity after Traumatic Brain Injury	neuroSURF	4
Samantha Bond	DR-ESC-Derived Endothelial Cells and Pericytes Interaction with Types III and IV Collagen	Molecular Visualization SURF	5
Maggie Boyer	Uterine Fibroid Ablation Using Histotripsy: A Proof of Concept Study	Independent	6
Canace Chung	Analysis of Microglia Morphology and Distribution in Visual Cortex of Control Rats and Rats with Mild Traumatic Brain Injury	neuroSURF	7
Christina Compton	Antidiabetic Effects of Elenolic Acid in Vitro and in Vivo	NIDDK Translational Obesity Undergraduate Research Summer Scholars	8
Logan Dunkenberg	Novel Use of Resveratrol for the Therapeutic Induction of Epstein-Barr Virus Lytic Infection	neuroSURF	9
Matthew Everett	Elucidating CASK-Tubulin Interaction in Transfected HEK293 Cells	neuroSURF	10
Cole Faulkner	Quantifying effects of mild traumatic brain injury on the morphology and distribution of microglia in visual cortex	neuroSURF	11
Samantha Franks	Analysis of Connexin43 intracellular localization during cancer plasticity	Molecular Visualization SURF	12
Prateek Govindaraj	Loss of CASK from Calretinin expressing cells leads to ataxia and cerebellar phenotypes	neuroSURF	13
Alana Hull	Modulation of the default mode network using real-time fMRI	Molecular Visualization SURF	14
Kavya Iyer	Regulation of Amino Acid Transport by p53 in Glioblastoma Multiforme	neuroSURF	15
Alexander Jean-François	Exploring Fitness Awareness Mobile Applications with Former Athletes	NIDDK Translational Obesity Undergraduate Research Summer Scholars	16
Jenny Johnson	Structural changes to intercellular junctions during adenoviral infection influence viral spread.	Molecular Visualization SURF	17
Erin Le, Fenix Huang	Understanding the Role of Single Nucleotide Variants on NHLH2 in mRNA levels	NIDDK Translational Obesity Undergraduate Research Summer Scholars	18
Claire Lee	Evaluating mechanisms underlying lymphocyte mimicry in metastatic breast cancer	Molecular Visualization SURF	19
Owen Leitzel	Impaired Blood Brain Barrier and Loss of Glutamate Transport in Atypical Astrocytes are Associated With Post-Traumatic Epileptogenesis	neuroSURF	20

Sid Madhavan	Identification of Key Sequences in Human Tau Protein for Aggregation in Alzheimer Disease and Related Tauopathies	ACC Creativity & Innovation	21
Anvitha Metpally	Examining the psychological mechanisms underlying obesity: the importance of eating and exercise motivations and attitudes	NIDDK Translational Obesity Undergraduate Research Summer Scholars	22
Marc Morales	Inhibition of PI3K/P110 $\beta$ overcomes Temozolomide resistance in Glioblastoma	neuroSURF	23
Christina Mounzer	Using Organoids to Investigate the Role of NIK in Colorectal Cancer	NIDDK Translational Obesity Undergraduate Research Summer Scholars	24
Shahd Nuri	Exercise and its Effects on Blood Flow in mdx mice	NIDDK Translational Obesity Undergraduate Research Summer Scholars	25
Carrie Orey	Using Hypoxia to Induce Neuronal Phenotypes in the N29/2 Cell Line	NIDDK Translational Obesity Undergraduate Research Summer Scholars	26
Kyle Rega	Argonaute 2 Knockdown Adversely Affects the Neuromuscular Junction	Molecular Visualization SURF	27
Sam Rodgers, Edward Jacobs, Lauren Harrison, Austin Allison, Tom Kasputis	Asthma Spacers for Low to Middle Income Countries	Independent	28
Carlos Rodriguez	Expansion microscopy to visualize complex retinogeniculate synapses	neuroSURF	29
Andrea Sanders	Microcephaly-associated mutations within CASK's PDZ domain affect the CASK-syndecan-2 interaction	neuroSURF	30
Niesha Savory	Mitochondrial quantity differences across hippocampal subregions	Molecular Visualization SURF	31
Noah Schrayner	Investigating the Function of GJA1-26k and the Contribution of Internal Translation to a Genetic Disorder.	Molecular Visualization SURF	32
Benjamin Shenal	Risk and Ambiguity Attitudes: Computational Modeling through Online Gamble Games.	neuroSURF	33
Kevin Sheng	Investigating the Effects of the Connexin43 Mimetic Peptide JM2 on Cell Migration and Microtubule Dynamics in Glioblastoma	neuroSURF	34
Olivia Smith	Yoga Interventions for Older Adults: A Systematic Review on Issues of Internal and External Validity through the RE-AIM Framework.	NIDDK Translational Obesity Undergraduate Research Summer Scholars	35
Senah Stephens	Validating a mouse line for cell specific RNA tagging	neuroSURF	36
Raissa Tchetcho Kemajou	Combined effects of ephaptic and gap junctional coupling during ischemia related arrhythmogenesis attenuates conduction velocity slowing	neuroSURF	37
Gianni Villegas	Elucidating NLRX1 as an Alternative Tumor Therapeutic	NIDDK Translational Obesity Undergraduate Research Summer Scholars	38
Jessica Wei	A Diverse Cytoarchitecture Forms Hidden Laminae in the Ventral Lateral Geniculate Nucleus	neuroSURF	39
Lynsey Wyatt	Differences in word production during intensive movement therapy	neuroSURF	40
Andrew Miller		Independent	41
<b>11:20-11:30am</b>	Break Poster session 1 take down/Poster session 2 set up		

11:30-12:30

## Poster Session 2 (Goodwin Atrium)

Presenter(s)	Presentation Title	Program Affiliation	Poster #
Michael Ackermann, Robyn Greissing, Labiba Labanya, Emily Parsons	Analysis of a Boolean Model of the Yeast Cell-Cycle Control Network	Computationally Driven Experimental Biology Program	1
Michael Arnold	Examining Herbicide Resistance & Use in the Poaceae Family	VT-REEL: Securing Our Food	2
Katherine Berg	Why accurate localization and expression of Amino Acid Permease1 in Arabidopsis plants is essential to assess its role in amino acid homeostasis?	Fralin SURF	3
Grishma Bhattarai	Giving Power Back: Gender Smart Assistance to address Food Insecurity in Ethiopia	Fralin SURF	4
Udipta Bohara	Viability of Eastern and Western North American Mycoplasma gallisepticum Strains on Birds Feeders	Fralin SURF, Global Change Center	5
Katie Capps	The role of GumN in infection by phage 7-7-1	Independent	6
Mallory Cerkleski	Soybean Yield and Quality: Mapping Genes Controlling Protein and Ensuring Ample Soil Sulfur Fertility	VT-REEL: Securing Our Food	7
Leor Clark	Evidence for Connections Between Flavonoid Metabolism and the Circadian Clock in Arabidopsis Thaliana	Fralin SURF	8
Erin Collins	In Silico Investigation of Multiligand Cobinding Activation in PPAR $\gamma$ and its Natural Mutations	Fralin SURF	9
Tanner DeHart	Characterization of an Essential Peptidoglycan Synthesis Enzyme in Borrelia burgdorferi, the Causative Agent of Lyme Disease	Fralin SURF	10
Ethan Dorman	Studying a Weed Pest, Observing Insect Pollinators and Pests, and Measuring a Fruit Quality Parameter in Agrosience Environments	VT-REEL: Securing Our Food	11
Eldridge Hager	Assessment of disinfection approaches for inactivation of antibiotic resistant strains of Enterococcus faecium and Pseudomonas aeruginosa in water intended for potable reuse	Independent	12
Cameron Hart	Temperature and sugar feeding effects on Aedes aegypti mosquitoes' activity	Global Change Center at Virginia Tech	13
Madigan Hawkins	A Tale of Two Cash Crops: Stewart's Wilt in Corn and Tobacco Mosaic Virus in Flue-Cured Tobacco	VT-REEL: Securing Our Food	14
Logan Heflin	Exploring the importance of rain as a source of plant associated bacteria	VT-REEL: Securing Our Food	15
Jordan Heiman	Identification of a novel appetite stimulant, transforming growth factor beta-3 (TGF $\beta$ -3)	Fralin SURF	16
Rosa Houchins	1. Conservation of native bee habitats: integrating wildflowers into pastures 2. Tracking the Tobacco mosaic virus infection from infected tobacco seeds to seedlings by Quantitative Real-time PCR Analysis	VT-REEL: Securing Our Food	17
Julia Hudack	Towards Detoxifying Poison Ivy Hairy Roots Using CRISPR Genome Editing	Fralin SURF	18
Grant Kawecki	Insight into Islet Amyloid Polypeptide (IAPP) and Amyloid- $\beta$ Peptide Interactions Using Molecular Dynamics Simulations	Independent	19
Soonyoung Kim	Deep Selection: Inferring Employee Traits from Resume Style Using Neural Networks	Fralin SURF	20
Jiwoo Kim	Analyzing Receptor Abundance in Sinorhizobium meliloti	Fralin SURF	21
Trent Kite	Structural and Functional Characterization of the Putative Peptidoglycan Binding Domain Protein LysMD3	Fralin SURF	22
Piper MacNicol	Elucidating the Effect of Polymer Molecular Weight on Metal Chelation	Independent	23
William Martin	Influence of Predation and Habitat Complexity on the Functional Stability of Stream Insect Communities	Independent	24
Frank Mazzola	Impact of High Chloride Levels in Galvanized Iron Infrastructures and Possible Corrosion Control Strategy in Washington Suburban Sanitary Commission (WSSC)	Independent	25
Jonathon Monroe	Microbial Metabolic Fingerprints of Tributary Streams	Independent	26
Austin Murray	A Putative Amphipathic $\alpha$ -Helical Motif in Brome Mosaic Virus Potentially Sufficient for Targeting the Perinuclear Endoplasmic Reticulum	Fralin SURF	27

Harveen Pantleay	Help-seeking attitudes moderate the relationship between stress and psychological quality of life in college students	Fralin SURF	28
Benjamin Rayden	Supporting the Advancement of Virginia Based Opioid-Related Resources by Creating a User-Friendly and Consistently Aggregated Data Resource	Independent	29
Breonna Runk	Investigating the Role of Iron in Plant Pathogenic Oomycetes for Novel Disease Resistance Strategies	Fralin SURF	30
Tahja Stewart		VT-REEL: Securing Our Food	31
Sophia Textoris	The Impact of Nonfatal Suicidality on Sibling Relationships: A Look At Stress, Distress, and Functioning	Fralin SURF	32
Taylan Tunckanat	In vitro characterization of Lysine-2,3-aminomutase from Methanococcus maripaludis	Fralin SURF	33
Colleen Valentine	Effects of eccentric skeletal muscle loading on tendon adaptation: A Preliminary Histological Analysis	Independent	34
William Vaughn	Bioinspired polymers for sequestration of doxorubicin during chemotherapy treatment	Independent	35
Maria Villafuerte	Neurodevelopmental Consequences of Early Life Ethanol Exposure	Fralin SURF	36
Rachael Walcheck	Collection of Volatile Compounds from Arachis hypogaea infected with Sclerotium rolfsii	VT-REEL: Securing Our Food	37
Addison Webster	Hypothalamic mechanism of neuropeptide S-induced satiety	Fralin SURF	38
Kevin Williams	Global characterization of Fusobacterium virulence proteins using genomics, bioinformatics, and cellular microbiology	Fralin SURF	39
Rowan Wooldridge	In vitro characterization of Sinorhizobium meliloti Methyl Accepting Chemotaxis Proteins McpW and McpZ	Fralin SURF	40
Mitch Woodhouse, Shannon Kate Barrett-Johnson, Matthew Trang, Kailey Kinslow, Anvitha Nachiappan	Use of a Clicker Band in Aiding an Individual Affected by a Spinal Cord Injury	Independent	41

**12:30-1:30pm** Lunch/Graduate school networking (Goodwin Atrium)  
Poster session 2 take down/Poster session 3 set up

**1:30-2:30pm** **Poster session 3 (Goodwin Atrium)**

Presenter(s)	Presentation Title	Program Affiliation	Poster #
Laith Abdulmajeid	Constitutive modeling of compacted snow	ICTAS-KAUST REU	1
Ibrahim Abughararh	Investigation of the Role of Spatial Organization in the Emergent Behavior of Quorum Sensing and Quorum Quenching Bacteria	ICTAS-KAUST REU	2
Deema Alabduljabbar	Forces Exerted By Cytoplasmic Fragments Generated Autonomously Under Different Fiber Geometries	ICTAS-KAUST REU	3
Abdulaziz Alali, Junyi Chen	Improving Drug Delivery using Hydrogels	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	4
Yazid Alamy	Improving Li Batteries	ICTAS-KAUST REU	5
Munirah Aldarwish	Generation of bioenergy and wastewater treatment by utilizing a photo-bioelectrochemical system	ICTAS-KAUST REU	6
Hasan Almahfoudh	Energy Harvesting and Vibration Control of Off-shore Platforms	ICTAS-KAUST REU	7
Mallory Alman	Comparing Inactivation of Antibiotic Resistance Genes by Chlorination and Maturation Pond Treatment in Indian Wastewater Treatment Plants	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	8
Ahmed Almatar	Ocean Wave & Solar Powered Saline Water Membrane Desalination	ICTAS-KAUST REU	9
Layla Almuallem	Enhanced Removal of Hazardous Azo Dye and Ammonia recovery from textile waste water by a Membrane Electrochemical Reactor	ICTAS-KAUST REU	10
Abdullah Alyamani	Synthesis of Nanoparticles as Sensors for Environmental Contaminants	ICTAS-KAUST REU	11

Trevor Amestoy	Quantifying peat hydraulic properties: a comparison of methods and peat layers to better understand consequences of drainage at the Great Dismal Swamp, U.S.A.	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	12
Colin Baciocco, Kestrel Owens, Isabelle Largen	Invisible water quality: Identifying spatiotemporal variation in water chemistry and water resource perceptions in Stroubles Creek headwaters	Confluence REEU	13
Austin Batz	Data Analysis of (e,e'p) Argon and Titanium Electron Scattering	Physics Neutrino REU	14
Maitland Bowen	Inverse beta decay and coherent elastic neutrino nucleus scattering -- a comparison	Physics Neutrino REU	15
Aidan Bradley, Michael Goldsworthy, Xavier Harrison, Walter Newsome, Georgina Dzikunu	Tracking of bat mobility and vocalizations near foliage	NSF US-China Collaboration: Bats as Model Organisms for Bioinspired Engineering	16
Brandon Christensen	Space Simulation Survey: Leading Developments Towards Using Multi-Rotors to Simulate Space Vehicle Dynamics	Hume Center	17
Jessica Christian	Maximizing the KURF materials screening sensitivity with a cosmic ray veto	Physics Neutrino REU	18
Rachael Dal Porto	Effects of Water Quality on Aerosol Size and Number Concentration Distribution Emitted from an Ultrasonic Humidifier	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	19
Lance De Koninck	Passive Anti-Frosting Cables via Microscopic Ice Patterns	Independent	20
Grace Dunleavy	The Impacts of Cosmic Ray Interactions on Dark Matter Detection	Physics Neutrino REU	21
Georgina Dzikunu	Survey of bat habitats in China	NSF US-China Collaboration: Bats as Model Organisms for Bioinspired Engineering	22
Leah Ford	Cultivation of Microalgae in an Osmotic Photo-Bioreactor for Wastewater Treatment and Agricultural Reuse	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	23
Andrew Fugaro	Arrested Dynamics of Droplets Impacting Icy Surfaces	ASME ICNMM	24
Michael Goldsworthy	A Multi-Modal Data Set on Bat Habitats and Biosonar Behavior	NSF US-China Collaboration: Bats as Model Organisms for Bioinspired Engineering	25
Basim Gotah	Biomimetic echolocation robot bats	Independent	26
Andrew Gunsch	Passive Attenuation to Allow Muon Calibration of NuLat Detector	Physics Neutrino REU	27
Xavier Harrison	Laser scanning of bat habitats in Asia	NSF US-China Collaboration: Bats as Model Organisms for Bioinspired Engineering	28
Kathleen Hohweiler, Bailey Snyder, Sinjin Blackwell	The Doodle Dust Dilemma: Public Perception and Heavy Metal Detection at a Former Superfund Site	Confluence REEU	29
Grant Hutchins, Ben Pritchard, Bryan Wells, Joseph Cunningham, Pedro Henrique Do Nascimento, Jake Lurie	SPACEDRONES: An Autonomous Multi-Agent Space System Testbed (AMASST) Utilizing Quadrotors to Simulate CubeSat Proximity and Rendezvous Operations	Space @ VT	30
Jenna Israel	Comparing quality of wastewater treatment plant biosolids with respect to antibiotic resistance genes in the United States and India	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	31
Schafer John, Grant Hutchins, Ben Pritchard, Rob Engebretson	An OLED Smartphone Scene Generator with Total Pixel Control in Support of Virginia Tech's Space Situational Awareness (SSA) Telescope Program	Space @ VT	32
Lydia Loan	Monitoring Macroinvertebrate Community Behavior Along a Flow Gradient in Sinking Creek, VA	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	33

Ashley Mickens	Predicting methane emissions in a eutrophic reservoir using an iterative near-term forecasting model	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	34
Abigail Supplee, Shayla Triantafillou	An interdisciplinary approach to visualizing the social and environmental impacts of a sinking stream system	Confluence REEU	35
Walter Newsome	A biomimetic sonarhead for surveying bat habitats in Asia	NSF US-China Collaboration: Bats as Model Organisms for Bioinspired Engineering	36
Cecilia Salazar Teran	Using Soil Stabilizers to Reduce Water Infiltration in Vineyard Soils	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	37
Matthew Soliman	Degradation of Legionella pneumophila gene markers in potable water during exposure to free chlorine, monochloramine, and chlorine dioxide	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	38
Jacob Steenis	Neutron Captures in Borated Polyethylene: An Analysis of the Quenching Measurement Data from MicroCHANDLER at TUNL	Physics Neutrino REU	39
Grace Strid	Evaluation of the Effects of Interaction and Display Fidelity in Interdisciplinary Hydrology Education by Comparing Novel Interfaces	ICTAS NSF-REU: Interdisciplinary Water Sciences and Engineering	40
Stephanie Toole	Using Cosmic Ray Veto to Increase Radiation Sensitivity at KURF	Physics Neutrino REU	41
Terrell Worrell	Study of Gliding Chrysopelea body orientations and resulting aerodynamics during shallow glide stages with 3D imaging camera arrays	Independent	42
<b>2:30-2:40pm</b>	Break Poster Session 3 take down/Poster session 4 set up		
<b>2:40-3:40pm</b>	<b>Poster session 4 (Goodwin Atrium)</b>		
<b>Presenter(s)</b>	<b>Presentation Title</b>	<b>Program Affiliation</b>	<b>Poster #</b>
Said Abou Draa	Understanding energy literacy concepts by using home examples	MAOP	1
Patricia Asiatico	Effects of a Building's Expected Lifetime on its Environmental Impact	MAOP	2
Amanda Barnes	The Indirect Effects of Urban Development on Stream Biota	ICTAS NSF-RET E3G	3
Chris Barnes	valuating the role of draw solute selection in forward osmosis wastewater processing	ICTAS NSF-RET E3G	4
Shawn Becker	Dissolved oxygen levels as a factor in determining the health of freshwater ecosystems	ICTAS NSF-RET E3G	5
Bryan Bloomfield	Characterizing harmful algal blooms (HABs) below the water surface using unmanned systems and underwater GPS	Schmale Lab NSF REU	6
Skeens Brooke	Evaluation of blood packed cell volume in cattle with and without Theileria orientalis Ikeda genotype	MAOP	7
Jason Bruno Terceros	Evaluating water quality impacts of urban runoff in Stroubles Creek using grab and continuous measurements	MAOP	8
Melissa Carr	Investigation of Copper Speciation, Complexation, and Precipitation in Drinking Water Systems through Bench Scale Testing and Field Sampling	ICTAS NSF-RET E3G	9
Chloe Coleman	Interaction Effects of Religion and Stress on Neural Cognitive Control in Adolescents	MAOP	10
Hamilton Crockett	Ice Nucleation Activity of Birch Trees in Different Seasons	Independent	11
Christine Faunce	Single Nucleotide P129T Mutation Shows Susceptibility to Problematic Drug Use in Mice	MAOP, Clare Boothe Luce	12
Jessica Gannon	Development of Histotripsy as a Non-Invasive Focused Ultrasound Ablation Method for the Treatment of Pancreatic Cancer	MAOP, Clare Boothe Luce	13
Anthony Abe Oliver Gemina	3D Reconstruction: Archiving High Quality 3D Models from 2D Images	MAOP	14
Jared Harvey	Towards Wrist Tremor Control Through an Exoskeleton	MAOP	15

Luis Hernandez	Blast Performance of Hybrid Internal FRP- and Steel- Reinforced Concrete Construction	MAOP	16
Cecil Hickam	SURFACE COAL MINING IN CENTRAL APPALACHIA: IS BIOACCUMULATION OCCURRING IN THE HEADWATER STREAMS?	ICTAS NSF-RET E3G	17
Charlie Holguin	The Effects of Silvicultural Treatments and Climate on <i>Plethodon cinereus</i> Wetlands in a warming world: The importance of wetlands in headwater carbon cycling	MAOP	18
Alexis Jackson	The Result of Nerve Growth Factor Beta Improving Embryonic Cleavage Rates	NSF REU	19
Kayla Jones	LdtR, a master transcriptional gene regulator, modulates motility in <i>Sinorhizobium meliloti</i>	MAOP	20
Mariama Kabore	Residential HVAC System Performance Comparison Using Cloud Computing	MAOP	21
Kendall Kelley	Functionality in 3D printed low-cost upper-extremity prosthetics	MAOP	22
Nathan Lam	Role of the PH and FYVE domains of the autophagic protein Phafin2	MAOP	23
Nicole Lopez-Vega	Are Traditions Salient To How U.S. Latinx Members Interact With Their Communities	MAOP	24
Aracely Mendoza	Evaluating marine records of polar environmental change during a past global warming event	MAOP, Clare Boothe Luce	25
Brianna Miranda	Nonlinear Processes in Artificially Designed Nano-Structures	MAOP	26
Ada Morral	Land Use as a Factor in Nutrient Loading in Karst Streams	MAOP	27
Aaron Napier	Cytocompatibility of Novel Tripeptide Hydrogel for Use in Biomedical Applications	ICTAS NSF-RET E3G	28
Nhat Quang Nguyen	De-icing through two novel chemical and mechanical techniques	MAOP	29
Kaavya Nimmakayala	Development of Low Cost Elbow Powered Prosthetic for Child With Upper Limb Disability	MAOP, Clare Boothe Luce	30
Karen Perez-Serpa, Nathan Lam, David Rwigema	Increased Salinity Facilitates Higher Abundances of Freshwater Microorganisms	MAOP	31
Autumn Peterson	3D printed prosthetic-arm personalized for participant's specific birth defect	MAOP	32
David Rwigema Makuza	Mobile Robot for Overhead Transmission Line Inspection	MAOP	33
Craig Schichtel	Evaluation of blood packed cell volume in cattle with and without <i>Theileria orientalis</i> Ikeda genotype	ICTAS NSF-RET E3G	34
Diana Schmidt	Space Weather Data Analysis: Developing software tools to aid in the search for ultra-low-frequency waves (ULFWs) by means of data visualization	MAOP	35
Brooke Skeens	Teachers Supporting Teachers: Piloting a Master Teacher program within an NSF/Research Experiences for Teachers (RET) Program	MAOP, Space @ VT	36
Christian Sorenson	Crystal Formation onto an Organic Matrix: Effect of pH on Nucleation Rate and Polymorphs of Calcium Carbonate	ICTAS NSF-RET E3G	37
Catherine Twyman, Shaunna Young, Rachelle Rasco, Katie Holcomb, Steve Ahn	The exploration of Martin Luther King Jr in public art: Agency and Interpretation	MAOP, Clare Boothe Luce	38
Michelle Worek		MAOP	39
Ajoni Wynn-Floyd		MAOP	40
<b>3:40-4:00pm</b>	End of symposium/ Poster session 4 take down		