

ANS Day
Thursday, April 13, 2023

Poster Presentations

9:00-10:30

- 1 Developing a Method to Detect Microplastic Ingestion by Louisiana Waterfowl
- 3 Newly Discovered Population of Southern Red-backed Salamanders Greatly Expands the Distribution of a Major Evolutionary Lineage
- 5 Plant-based Lentil Burgers Exceed the Nutrient Quality of American Classic Hamburgers
- 7 Recipe Modification of Peanut Butter Pie to Adhere to the Therapeutic Diabetes Lifestyle Plan
- 9 Homemade Chili Recipe Modified for a Plant-Based Diet
- 11 The Role of Notch3 in Human Adipose Stem Cell Fate
- 13 Promoting Newborn Safety through Campus Simulation
- 15 The Impact of Restoration on Pollinator Diversity in a Shortleaf Pine-Oak-Hickory Forest
- 17 Astrocyte-derived extracellular vesicles as a novel approach to reduce brain endothelial cells oxidative DNA damage.
- 19 Role of Notch3 and Conditioned Media on Human Adipose Stem Cells
- 21 Branching Out After 100 Years to Describe Sonderegger Pine Morphology
- 23 Evaluating the Effects of Hydroperiod on Trophic Ecology and Diet
- 25 Ingestion of Microplastics by Louisiana Waterfowl
- 27 Cell co-culture microfluidics platform with an integrated hydraulic valve for controlled interaction of brain endothelial cells and astrocytes

- 29 How Implementing Grain in Cattle's Diets Affects the Yield Grade of a Carcass
- 31 Soil your undies: a measure of soil health and organic matter decomposition
- 33 Effects of Hormex Rooting Powder No. 16 for Difficult to Root Woody Plants on Shoot length, Root Length, Root Area, Root Volume, and Leaf-out on American Sycamore and Eastern Cottonwood Cuttings
- 35 DNA Barcoding of Borer Moths (Genus *Papaipema*) Reveals High Species Richness on Fort Leonard Wood, Missouri
- 37 Classification of Early Childhood Educators' Behaviors to Improve WISE Implementation
- 39 Comprehensive Sampling Clarifies Slimy Salamander Distributions and Reveals Potential New Species
- 41 The Influence of Microgravity on Notch Signaling and Adult Stem Cell Osteogenesis
- 43 Spread and growth mechanisms of Chinese tallow (*Triadica sebifera*) trees in fire regulated slash pine (*Pinus elliottii*) flatwoods of the Gulf Coastal Plain, USA: effects of microtopography and prescribed fire at stand level
- 45 Next Generation Sequencing Provides Pathogen Monitoring To Rural Communities
- 47 The Effects of the Notch3 Signaling Pathway on Cellular Secretions
- 49 Effects of Leaf Diversity on Stream Invertebrate Abundance and Diversity
- 51 Halloysite Polydopamine nanohybrids to treat multidrug-resistant Bacterial infection
- 52 PVA, Chitosan/Cellulose and Metalized Halloysite Nanotube (mHNT) Antimicrobial Films and Packaging
- 53 Airborne Microplastics in Carson-Taylor Hall, Louisiana Tech University, Ruston, LA
- 54 Exploring Microplastic Ingestion by Louisiana's American Woodcocks (*Scolopax minor*)
- 55 The Important Interaction between LaTech and The OWL Center

Poster Presentations

10:30-12:00

- 2 Bacteriophage lambda integrase can recombine att-like sequences from the human genome
- 4 Fabrication and Characterization of a Stretchable Sodium alginate hydrogel patch incorporated with silicon nitride and metalized Halloysite nanotube to develop chronic wound healing treatment
- 6 Gene Sampling Technology for Rapid Microbial Genotyping in Microfluidic Device
- 8 Leisure Experiences of Older Adults in Long Term Care Facilities: Connecting Curriculum, Theory, and Research to Service Learning and the FCS Body of Knowledge
- 10 How terrestrial salinization impacts isopod growth and behavior
- 12 Identification of Organophosphates Degrading Microorganisms in Northern Louisiana
- 14 Effects of Temperature on the Degradation of Tannins
- 16 Parasite dynamics in treated and untreated horses in Fall and Winter months in Louisiana
- 18 Analysis of the Effects of Microgravity on Phytochromes in Arabidopsis
- 20 Effects of Leaf Diversity on Aquatic Invertebrate Abundance and Diversity in Ponds
- 22 Does Nuclear DNA Support the Recognition of Four Species within the Caddo Mountain Salamander, *Plethodon caddoensis*?
- 24 Leaf Species Effects on Mosquito Oviposition
- 26 Metalized Halloysite Nanotubes (mHNTs) and Hydroponic Plant Growth
- 28 Antimicrobial Coatings Composed of Chitosan, Poly Vinyl Alcohol and Zinc-coated Halloysite Nanotubes
- 30 Studies on inhibiting spore-associated Alanine Racemase (Alr) using various Amino Acids

- 32 Physico-chemical and Cytotoxicity Assessment of Chitosan/Carboxymethyl cellulose/halloysite Composite Film Membranes
- 34 Evolutionary Relationships of the Slimy Salamanders *Plethodon kisatchie* and *Plethodon mississippi* Across the Mississippi River
- 36 Fine woody debris as a source of space and energy increases predators and decomposition in brown food webs
- 38 Genomic Sequencing of SARS-CoV-2 Benefits COVID-19 Surveillance
- 40 Carotenoid Status is Associated with Body Mass Index and Overall Diet Quality
- 42 Production of Polyvinyl Pyrrolidone (PVP) Scaffolds Containing Zinc Oxide and Halloysite using Solution Blow Spinning
- 44 Using Sugar-Iodine as a Cheaper and Safer Alternative to Copper Sulfate to Increase Equine Hoof Health
- 46 Using Horses to Teach Life Skills to At-Risk Youth While Developing Civic and Social Responsibilities in College Students
- 48 Exploring the impact of developmentally appropriate parenting on family unit bonding during family vacations at a theme park: My Disney College Program
- 50 The Sublethal Impacts of Fipronil on Aquatic Trophic Cascades and Periphyton Biomass
- 56 Arbor Trails Through Kiroli Park