



2023 Summer Research Showcase Program

Oral Presentations – Science Building Room 105

2:00-3:00 PM

Time	Dept	Presenting Author(s)	Additional CoAuthors	Faucly Mentor	Title
2:00-2:12	CHGP	Stephen Bardowell		Dr. Shaukat Goderya	Installation, Calibration, and Verification fo Shelyak Eshell II ES0006 Spectrometer System on Tarleton State University Research Observatory
2:12-2:24	BIOL	Matthew Williams		Dr. Max Sanderford, Dr. Myoung-Gwi Ryou & Dr. Harold Rathburn	The Effect of a High Fat Diet on Glucose Tolerance and Sympathetic Neural Activity (SNA) in Sprague Dawley Rats
2:24-2:36	MATH	Kyle Earp & Derek Hopkins	Amanda Kodua, Dashon Mitchell & Tristian Troublefield	Dr. Chris Mitchell, Dr. Scott Cook	Bayesian Methods to Infer Parameters for ODE Models of Disease Spread
2:36-2:48	CHGP	Michael Fowler	Heather Reyff	Dr. Rajani Srinivasan & Dr. Adam Mitchell	Development of Plant Derived Non-toxic Adjuvants to Control Pesticide Drift and Protect Pollinator Health
2:48-3:00	BIOL	Dasire Brawley		Dr. Dustin Edwards	Surveillance for Reticuloendotheliosis Virus and Lymphoproliferative Disease Virus in Rio Grande Wild Turkeys in the Edwards Plateau Ecoregion of Texas

Poster Presentations – Science Building 1st Floor Hallway

3:00-4:30 PM

Poster #	Dept	Presenting Author(s)	Additional CoAuthors	Faulculty mentor	Title
1	MATH	Kyle Earp, Derek Hopkins & Tristian Troublefield	Amanda Kodua & Dashon Mitchell	Dr. Christopher Mitchell & Dr. Scott Cook	Bayesian Methods to Infer Parameters for ODE Models of Disease Spread
2	MATH	Leah Rogers	Hayden Rawlings	Dr. Bryant Wyatt	Atrial Fibrillation: Insights and Advances in Management through Computational Modeling
3	BIOL	E. ary Mullins		Dr. Victoria Chraïbi	AQUACOSM Sweden: Functional and Compositional Consequences of Different Salinity Disturbance Regimes on Plankton Communities
4	CHGP	Aubry L. Hutson		Dr. Linda Schultz	Measurement of Non-elevated Sulfate Levels in West Texas Groundwater using Conductometric Titration
5	CHGP	Anne Marie Wood	Michael Tallant & Esmae Velsen	Dr. Rajani Srinivasan	Cultured Pancreatic Tumor Cell Growth is Inhibited by Co-transfections with Osage Orange Isoflavones and Fenugreek Carbohydrate Polymer
6	MATH	Patience Nartey		Dr. Christopher Mitchell	Tuberculosis: How Smoking Affects its Infection.
7	MATH	Amanda Serwaa Akuoko Kodua		Dr. Christopher Mitchell	Mathematical Modelling of Transmission Dynamics of Measles Under the Effect of Face Mask.
8	MATH	Gavin McIntosh	Avery Campbell & Melanie Little	Dr. Bryant Wyatt	Modeling Supraventricular Tachycardia Using Dynamic Computer-Generated Left Atrium
9	MATH	Zachary Watson		Dr. Bryant Wyatt	Modeling Dust Crystals in Complex Plasmas using Parallel Processing with Nvidia GPUs
10	CHGP	Michael Tallant	Anne Marie Wood & Esmae Velsen	Dr. Rajani Srinivasan & Dr. Kimberly Guay	Plant Based Drug Delivery System for Oral Delivery of Insulin in Pig Models- Histological Study
11	BIOL	Aimee Byington		Dr. Victoria Chraïbi	Assessing Desiccation Stress Effects on Mortality Rates and Community Composition of Diatoms Residing in Streams Prone to Drought

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12	BIOL	Taylor Price		Dr. Allan Nelson	Community Description of a Rare Edwards Plateau Cliff Community on Flat Rock Creek in Bosque County, Texas
13	CHGP	Esmee Velsen	Michael Tallant & Anne Marie Wood	Dr. Rajani Srinivasan	Investigating Viscosity, Molecular Weight, and Degradation Kinetics: A Study on Polymer Solutions and Drug Delivery Systems
14	BIOL	Keely Crawley	Sarah Golsch, Keely Crawley & Michelle Marshall	Dr. Victoria Chraïbi	Preferential Diatom Colonization on and in Porcine Bone Substrates to Inform Forensic Trace Evidence
15	CHGP	Stephen Bardowell		Dr. Shaukat Goderya	Installation, Calibration, and Verification fo Shelyak Eshell II ES0006 Spectrometer System on Tarleton State University Research Observatory
16	BIOL	Matthew Williams		Dr. Max Sanderford, Dr. Myoung-Gwi Ryou & Dr. Harold Rathburn	The Effect of a High Fat Diet on Glucose Tolerance and Sympathetic Neural Activity (SNA) in Sprague Dawley Rats.
17	CHGP	Ryan Wood	Luke Reynolds & Sam Rodriguez	Dr. William L. Whaley	A Rapid Method for Purification of Osajin, and Anti-Tumor Agent