

OCSE Graduate Student Research Grants

Agriculture

Beverly Gartland, (Dr. Jennifer Gill)

Nutritional Issues of Geriatric Horses: Ingestion Versus Digestion

AWARDED \$2,453.56

Biology

Taylor McRoberts, (Dr. Scott Grubbs)

The Stoneflies (Insecta, Plecoptera) of Mammoth Cave National Park –Assessing Patterns of Species Richness, Commonness vs. Rarity, and Affinities with Available Habitats

AWARDED: \$895.15

Madeline Metzger (Dr. Scott Grubbs)

The Stoneflies (Plecoptera) of the Black Mountains – Assessing Patterns of Diversity Hotspots, Elevation Gradients, and Potential for Regional Species Loss

AWARDED: \$2,861.59

Lauren Kappel, (Dr. Steve Huskey)

Substrate-Borne Vibrational Communication in Veiled Chameleons During Courtship and Breeding

AWARDED: \$3,000.00

Meghan Hall,

Seasonal Movement Patterns of Benthic Fish in Headwater Streams of a Reservoir - Riverine Habitat Complex Upstream of the Barren River Dam

AWARDED \$2,776.00

Wesley Payette,

Assessment of Fitness Costs Associated with Drug-Induced Sleep Inhibition in Arctic-Breeding Lapland Longspurs (Calcarius Lapponicus) Snow Buntings (Plectrophenax Nivalis)

AWARDED \$3,000.00

Kyle Whorrall, (Biology)

Documenting the Unexplored Diversity of Peruvian Spider Beetles

Requesting \$3,000.00, **AWARDED \$3,000.00**

Chemistry

Jae Ko, (Dr. Kevin Williams)

Different Reactions of 5' –Guanosine Monophosphate and N-Acetyl-L-Methionine on a Platinum Tri-Ammine Complex with a Seven-Membered Ring

AWARDED: \$1,137.00

Jenna Cantway, (Dr. Les Pesterfield)

Mechanochemistry: Solvent-Free Synthesis of Metal Coordination Compounds using Ball Mills

AWARDED: \$2,145.00

Ban Wang, (Dr. Yongming Deng)

The Catalytic Methodology Development of Iron Catalysts for Carbene Transfer Reactions

AWARDED: \$2,991.00

Jonathan Markham, (Dr. Yongming Deng)

Pyridine N-Oxides Assisted Activation of Alkynes by Visible Light Photo-Redox Light Catalysis

AWARDED: \$2,964.00

Amanda Houchens, Chemistry (Dr. Cathleen Webb)

Analysis of Mercury and Trace Metals in Bat Guano

Awarded \$2,725.00

Viral Bhavsar, (Dr. Eric Conte)

The Effects of Antibiotics on Methane Production from Anaerobic Digestion

AWARDED \$2,766.30

Geography & Geology

Zachary Creech, (Dr. Michael May)

Lithological Character and Sequence Stratigraphy of the Ste. Genevieve Limestone in Western Kentucky

AWARDED: \$1,357.00

Jason Fox, (Dr. Leslie North)

An Index-Based Assessment of Tourism Development Impacts in Cold-Climate Coastal Landscapes

AWARDED: \$1,000.00

Adam Mattson, (Dr. Nahid Gani & Dr. Royhan Gani)

Structural Reconstruction of the Chandon, Vos, and Yellowglen Gas Discoveries in the Northern Carnarvon Basin, Australia

AWARDED: \$1,205.00

Charles O'Connell, (Dr. Chris Groves)

Developing New Tools to Study the Karst Hydrogeology of a Pristine Groundwater Flow System: Great Onyx Spring, Mammoth Cave National Park, Kentucky

Awarded \$2,965.00

Jacob Grigsby, (Dr. Nahid Gani)

Incision History of the Northwestern Ethiopian Plateau: Insights from Low-Temperature Apatite Thermochronology

AWARDED \$2,453.56

Anna Harris, Geography & Geology (Dr. Kambesis)

Quantifying the Impacts of Timber Harvest on Karst Systems in the Tongass National Forest, Alaska.

Requesting \$3,000.00 - **AWARDED \$2,453.56**

Physics & Astronomy

Bektur Adisatarov, (Dr. Ali Oguz Er)

Nanosecon Pulsed Laser Deposition of Lead Thin Film on Silicon

Requesting \$2,990.82, **AWARDED: \$ \$2,990.82**

Ernek Belekov, (Dr. Ali Oguz Er)

Pathogenic Bacterial Deactivation in Human Blood Using Silver Nanoparticles as a Photodynamic Therapy Agent

AWARDED: \$2,678.00

Psychological Sciences

Mallory Hughes, (Dr. Matthew Shake)

The Effects of Aging and Bilingualism in an Emotional Stroop Task

AWARDED: \$2,905.00

Alyssa Minton, (Dr. Andrew Mienaltowski)

Age Differences in the Impact of Gaze Direction and Context on Emotion Perception

AWARDED: \$950

Robert Twidwell, (Dr. Lance Hahn)

Perception of a Therapist Using Jargon in a Text Message-Based Session

AWARDED: \$1,440.00

Romin Geiger, (Psychological Sciences)

Preschool Self-Regulation: A Predictor of School Readiness

Requesting \$1,035.00, **AWARDED \$1,035.00**