

AWARD WINNERS FROM THE 102ND ARKANSAS ACADEMY OF SCIENCE
(awardees are underlined)

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Biology

1st Place (Tie)

Culture-independent analysis of Hot Springs National Park thermophiles by Taylor Stone; Richard C. Murray; Matthew D. Moran. Hendrix College

Effects of recreational boat noise on avoidance and feeding behaviors in an important freshwater stream fish by Claire Turkal; Trystin F. Anderson; Maureen R. McClung. Hendrix College

UNDERGRADUATE POSTER PRESENTATION

AWARDS: Biology

1st Place

Genetic engineering of the Mad locus using CRISPR/Cas-9 and Phi-C31 recombination by Jeremy Brown. Southern Arkansas University

GRADUATE ORAL PRESENTATION

AWARDS: Biology

1st Place

Distribution Records of the Chestnut Lamprey in Arkansas by Jeremiah Salinger; Ron Johnson. University of Arkansas at Pine Bluff

GRADUATE POSTER PRESENTATION

AWARDS: Biology

1st Place

Molecular Mechanisms Underlying the Higher Biomass and Abiotic Stress Tolerance Phenotype of Arabidopsis MIOX Overexpressers by Nirman Nepal; Jessica P. Yactayo Chang; Lucia M. Acosta-Gamboa; Karina Medina-Jimenez; Mario A. Arteaga-Vasquez; Argelia Lorence. Arkansas State University

2nd Place

Investigation of the function of a putative cysteine synthase homolog in Mycobacterium smegmatis using unmarked gene deletion mutation by Saroj Mahato; Ravi D. Barabote. University of Arkansas

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Ecology

1st Place

Valuation of ecosystem services of the Arctic National Wildlife Refuge by Margaret Young; Adam C. Turner; Matthew D. Moran; Maureen R. McClung. Hendrix College

2nd Place

Aerobic Pushups: Cutaneous Ventilation in Overwintering Smooth Softshell Turtles, Apalone mutica by Caleb O'Neal; Michael V. Plummer. Harding University

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Chemistry & Geosciences

1st Place (Tie)

Development of a Novel Method for Purification of Recombinant Proteins by Amberly Vaughan; Musaab Al-Ameer; T.K.S. Kumar. University of Arkansas

Quantification of Brominated Vegetable Oil in Beverages by LC-MS by Katie Farmer. Harding University

UNDERGRADUATE POSTER PRESENTATION

AWARDS: Chemistry & Geosciences

1st Place

Novel Peptoids as Antimicrobial Agents by Eliza Hanson; Francis Umesiri. John Brown University

2nd Place

Extraction and Quantitation of Heterocyclic Aromatic Amines from Cooked Bacon using Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry by Emily Joy Seminara; Lora J. Rogers; Susan Kadlubar; Howard Hendrickson. Hendrix College

GRADUATE ORAL PRESENTATION

AWARDS: Chemistry, Geosciences & Engineering

1st Place (Tie)

Phenomics Approaches to Elucidate the Contribution of the Four Ascorbate Pathways to Abiotic Stress Tolerance in Arabidopsis by Lucia Acosta-Gamboa; Nirman Nepal; Zachary C. Campbell; Shannon Cunningham; Karina Medina-Jimenez; Argelia Lorence. Arkansas State University

Arkansas Academy of Science Student Presentation Awards

Variable Frequency Drives, Providing Energy Efficiency and Enhanced Crop Production in Agriculture While Improving Water Management Processes by Robert Strait; Rajesh Sharma; Paul Mixon; Steve Green; Andrzej Rucinski; Nadya Reingand; Christophe Paoli; Dwight Ellis. Arkansas State University

GRADUATE POSTER PRESENTATION

AWARDS: Chemistry

1st Place

Identification of a novel glucan crosslink to feruloylated arabinoxylan in rice bran fiber by Kan Takahashi; Brett Savary. Arkansas State University

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Engineering, Math, Physics & Computer Science

1st Place

An Interacting Model between Dark Energy and Dark Matter by Yosuke Kitakaze; Jesse Griffiths. Arkansas Tech University

UNDERGRADUATE POSTER PRESENTATION

AWARDS: Engineering & Physics

1st Place

Stratospheric Ballooning RGB System for LiDAR Measurements by Patrick Tribbett; Ross Carroll. Arkansas State University

2nd Place

Rutherford Backscattering Spectrometry by Paul Niyonkuru. University of Central Arkansas

GRADUATE POSTER PRESENTATION

AWARDS: Engineering

1st Place

Anomalous electrostatic nature of charged particles: An approach towards stable equilibrium in inverted systems by Tamal Sarkar. Arkansas State University