

Undergraduate Research Day

Biology: Ecology, Conservation and Wildlife

1st Place: Dana Green

SEASONAL SEX RATIO VARIATION OF GRAY BATS (MYOTIS GRISESCENS) NEAR A HIBERNACULUM IN SOUTHWEST MISSOURI, Faculty Advisor: Lynn Robbins

2nd Place: Kendell Loyd

USE OF VISUAL AND CHEMICAL CUES DURING PREDATOR DETECTION IN THE RAINBOW DARTER, ETHEOSTOMA CAERULEUM, Faculty Advisor: Alicia Mathis

Biology: Cellular, Microbiology and Genetics

1st Place: Justin Conover and Chelsea Campbell

PHENOTYPING A SEGREGANT MAPPING POPULATION OF VITIS PIASEZKII X VITIS VINIFERA HYBRIDS FOR QUANTITATIVE TRAIT LOCI ANALYSIS FOR RESISTANCE TO PLASMOPARA VITICOLA

Faculty Advisor: Laszlo Kovacs

2nd Place: Shelby Harris EVALUATION OF COMMERCIAL SILVER-IMPREGNATED DRESSINGS TO INHIBIT GROWTH OF SILVER-RESISTANT BACTERIA ISOLATED FROM PATIENTS AT A LEVEL I TRAUMA CENTER, Faculty Advisor: Rhy Norton and Paul Durham

Chemistry

1st Place: Adam Kirkpatrick

ROTENOID BIOSYNTHESIS: COMPUTATIONAL ANALYSIS OF COMPETING IONIC AND RADICAL PATHWAYS FOR CYCLIZATION, Faculty Advisor: Matt Siebert

2nd Place: Hillary Mitchell

INKJET-PRINTED MULTI SENSOR ARRAYS ON FLEXIBLE SUBSTRATES, Faculty Advisor: Adam Wanekaya

Engineering

1st Place: Shane Jestus and Bryan Viles

OPERATING A 3 PHASE INDUCTION MOTOR FROM A SINGLE PHASE SUPPLY, Faculty Advisor: Robert Egbert

2nd Place: Tyler Harris, Daniel Hill, Jesse Sherman

DC TO AC SOURCE CONVERSION, Faculty Advisor: Robert Egbert and Rohit Dua

Geography, Geology and Planning

1st Place: Jameelah Rodriguez

GEOCHEMICAL STUDY OF Al, Cd, Pb, AND Zn FOUND IN CREEK SEDIMENT IN AURORA MISSOURI

Faculty advisor: Melida Gutierrez

2nd Place: Erica Gerweck

DESCRIPTION AND PRELIMINARY INTERPRETATION OF THE PRAIRIE CREEK DIATREME CRATER OF DIAMOND STATE PARK, ARKANSAS: A RE-EVALUATION OF THE VOLCANIC HISTORY FROM CORE ANALYSIS, Faculty Advisor: Gary Michelfelder

Mathematics

1st Place: Aaron Ogle

COUNTING PERFECT MATCHINGS IN GRAPHS, Faculty Advisor: Les Reid

2nd Place: Meagan Leppien and Mena Whalen

DYNAMICS AND BIFURCATIONS OF A CHOLERA EPIDEMIOLOGY MODEL, Faculty Advisor: Jorge Rebaza