MSU Students Take Top Honors at Annual KAS

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Morehead State University issued the following news release:

Eleven students and a faculty member from Morehead State University made presentations or won awards at the Kentucky Academy of Science's annual meeting.

Student winners in the Undergraduate Paper and Poster Presentation, by program, were:

Computer and Information Sciences: Joshua Bradley, first place; Christopher Estes, third place.

Mathematics: Amir Ahmadi, second place; Bradley Schneider, poster award.

Physics and Astronomy: Tabitha Aldridge, poster award.

Ecology and Environmental Science: Susan Brown, poster award.

Microbiology: Tyler Elam, poster award.

Student winners in the Graduate Research Competition, by program, were:

Psychology: Jacquelyn Lile, first place; Nicolette Lowe, second place; Nicholas Rudd, third place.

Engineering: Sanjeev Adhikari, third place.

Oral presentations made by MSU faculty and/or students, by emphasis, were:

Botany: "Epiphyllous bryophytes in the Appalachian Plateau of Kentucky and Tennessee," Dr. Allen C. Risk, professor of biology; Channing Richardson, Oklahoma State University; and Paul G. Davison, University of North Alabama.


"Plant biodiversity surrogacy: a case study from a sandstone gorge ecosystem in eastern Kentucky," Dr. Risk.


"Intrusion Detection in Wireless Mobile Networks," Christopher Estes and Sherif Rashad.


Engineering: "Importance of civil engineering material class to the construction management students," Adhikari.
"Kentucky Space High Altitude Balloon Mission to Gather Tropospheric Comet Dust," Marc Beck, University of Louisville; Zach Jacobs, University of Kentucky; and MSU students Clay Graves, Nathan Fite, Brandon Molton, Katie Brown, Jonathan Fitzpatrick, and MSU professor Dr. Benjamin Malphrus.


"Place Names in Kentucky," Steven Parkansky, associate professor of geography.

Mathematics: "Graphs with Disjoint Dominating Sets and Identifying Codes," Dr. R. Duane Skaggs, assistant professor of mathematics.

"Centrosymmetric solutions to the n + k queens problem ," Maureen Doyle, Robert J. Jeffers and Jeffrey Ward, Northern Kentucky University; Walter Kosters, Universiteit Leiden; and Dr. R. Douglas Chatham, associate professor of mathematics.


Microbiology: "Diverse capacities for DNA damage responses across the genus Acinetobacter," Tyler J. Elam and Dr. Janelle M. Hare, associate professor of biology.

Physics and Astronomy: "Atmospheric and Technological Exploration with the POPACS Satellite," Gil Moore, Utah State University and United States Air Force Academy; Walter Holemans, Space Dynamics Laboratory; Dr. Adam Huang; and Bob Twiggs, professor of space science, Jeff Kruth, Space Science antenna engineer, Dr. Malphrus and Fite.

"High Altitude Comet Dust Collection Experiment," Beck, UofL; Jacobs, UK; and Daniel C. Graves, Molten and Dr. Malphrus.

"An Observation of the Galactic Supernova Remnant G352.7-0.1 with the Chandra X-ray Observatory," Thomas Pannuti and Tiffany Murray.

"Metamaterials: Perfect Absorber," Dr. Willie Padilla, Boston College; and Daniel E Benton.


"Reduction of copper by Bisphenol A and the potential for DNA damage," Logan Murphy and Dr. David Saxon, professor of biology.

Psychology: " 'A Headache is a Hot Poker in Your Brain Matter' Metaphoric Production about Health Experiences in Adults," Nicholas Rudd, Alena Hromish, Caitlin Linepensil and Dr. Lynn Haller, associate professor of psychology.

"The Reliability and Validity of the Adult Knowledge of Attention Deficit Disorders Scales," Julia Dahmane and Dr. Sean P. Reilley, associate professor of psychology.

"The Apple Doesn't Fall Far From the Tree. Insightfulness and the transmission of attachment between parent and child," Paula Sexton, Katelyn Fugate, Stacey Vetter, and Dr. Shari Kidwell, associate professor of psychology.


"'Causal' amphetamine administration and changes in stimulant- and withdrawal-related activity in rats," Devin R. Gibbs and Dr. Wesley White, professor of psychology.

"The Ability of the CAT-A to Detect Malingered Current AD/HD Symptoms in Adults With and Without Enhanced AD/HD
Knowledge," Medina Jackson and Dr. Reilley.


"Repeated Exposure to Psychostimulants on Appetitive Behavior," Steven Osborne, David Book, Nicholas Holt, Lauren May and Dr. Ilsun M. White, professor of psychology.


"What science majors want in a career? Can school science teaching offer it?" Gonzalez-Espada.

Students/faculty who submitted posters, and their research, were:

Agricultural Sciences: "A Two-year Evaluation of Disease Susceptability and Fruit Yield of Selected Heirloom and Hybrid Cultivars of Tomato (Solanum lycopersicum)," Joshua Riggsby, Jennifer Harman, and Drs. Brent Rogers and Debby Johnson, associate professors of agriculture.

"Using ultrasound as a quantitative tool to assess body condition score in Quarter and Thoroughbred horses," Broc Sandelin, California State Polytechnic University - Pomona; Lauren Melzer, Alecia Raymer, Niki Wheeler, and Dr. Judy Willard, lecturer; Dr. Troy Wistuba, associate professor of agricultural science, and Dr. Phil Prater, professor of veterinary technology.

Engineering: "KySat-1: A Test-Bed for Small Satellite Technology, "Daniel Erb and Dr. James Lumpp, University of Kentucky; and Dr. Malphrus.


Microbiology: "Strategies for Identification of Polyhydroxyalkanoate Inclusion Proteins," Tiffany Stacy, Jacob Jordan, Lynn Eisenhour, laboratory manager/researcher; and Dr. Douglas Dennis, chair of the Department of Biology and Chemistry.


"A multi wavelength (X-ray, optical, and radio) survey for supernova remnants in nearby galaxies M101 and NGC4258," Tabitha Aldridge, Doug Staggs and Dr. Thomas Pannuti, assistant professor of space science.

"Development of an online INSPIRE VLF-3 receiver at Morehead State University," Douglas Haase and Dr. Birriel.

Psychology: "Differential Effects of Physiological Stress and Cortisol on Simple Learning," Jeffery Dobson and Dr. Ilsun White.


"Impact of Multiple AD/HD Case Studies on Malingering," Tina Ward, Medina Jackson, Jonathan Rakes, and Dr. Reilley.


"Dissociation between Priming and Recognition of Facial Expressions," Book, Osborne and Dr. Ilsun White.

"Acute Effects of MDMA (Ecstasy) on Simple Learning and Social Interaction in Rats," Lauren May, Katherine Ledger, Alyssa Addison, Shayla Miller and Dr. Ilsun M. White.

"The Big Five: Relations with behavioral approach, inhibition and interpersonal problems," Keri Burge, Katie Grigsby,
Addison and Dr. David Olson, associate professor of psychology.

The Kentucky Academy of Science is a nonprofit organization whose goals are to encourage scientific research, promote the diffusion of scientific knowledge and unify the scientific interests of the Commonwealth of Kentucky. Established in 1914, the Academy is an affiliate of the American Association for the Advancement of Science and the National Association of Academies of Science.