

# Ozark Region Missouri Junior Academy of Science – March 22, 2024

<b>Highly Superior</b>		
Matthew Kelley	<b>Junior</b>	Take Down
Connor Boyle	<b>Junior</b>	Holy Guacamole
Ryan Radlund	<b>Junior</b>	SOS (Save Our Soles)
Lyla Naslund	<b>Junior</b>	Slow Mo
Cooper Self	<b>Junior</b>	Slick Pistons
Jackson Bruns	<b>Junior</b>	Earth's Invisible Farmers
Joey Tietze	<b>Senior</b>	Novel Application of Toroidal Propellers on Single Propeller Fixed-Wing Aircraft
Olivia McGruder	<b>Senior</b>	Effects of Sodium Bicarbonate On Methotrexate Affected Livers in <i>Danio rerio</i> : An Embryological study
Michael Owen	<b>Senior</b>	The Effect of Cytoplasmic Material on <i>Rosa 'ZARrefre'</i> Rate of Decay: A Novel Approach to Preservation
Kasey Hicks	<b>Senior</b>	Assessing the Impacts of Lead-Loaded Biochar Degradation on <i>Caenorhabditis elegans</i> Population Growth

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<b>Superior</b>		
Luke Patton	<b>Junior</b>	Improving the Tools of Ignorance
Ian Johnson	<b>Junior</b>	Take Me Out to the Ballpark
Charles Boyle	<b>Junior</b>	Smile Bright with Pearly Whites
Jordan Ray	<b>Junior</b>	How Much Weight Has to Fall Before An Infant Dies
Gavin Kurth	<b>Junior</b>	The Crayfish Mystery
Chase Benedick	<b>Junior</b>	Forging new paths to cleaning
Larry Quade	<b>Senior</b>	The Power of Citrus: Constructing an Eco-friendly Citric Acid Battery Alternative to Alkaline and Lithium Batteries
Sadie Rinck	<b>Senior</b>	Feasibility of Litium Sulfate and Other Concentrations in Place of Liquid Electrolytes in a Lithium Battery
Opal Antoszewski	<b>Senior</b>	The effects of abiotic factors on the toxicity of <i>Neotyphodium coenophialum</i> in <i>Festuca arundinacea</i>
Keith Bass	<b>Senior</b>	Implementation of a Proportional-Integral-Derivative (PID) Controller-emulating Feedforward Neural Network to Improve the Success Confidence of Autonomous Attitude Control for Low-Orbit Satellites

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<b>Excellent</b>		
Braya Scott	<b>Junior</b>	Straps to Last
Rylan Archer	<b>Senior</b>	Ionic Thrust: Manipulation of Electro-Hydrodynamics
Kelsey Daugherty	<b>Senior</b>	Unveiling Salicylic Acid's Potential: Enhancing Tomato Plant Resilience Against <i>Meloidogyne incognita</i> Race 3