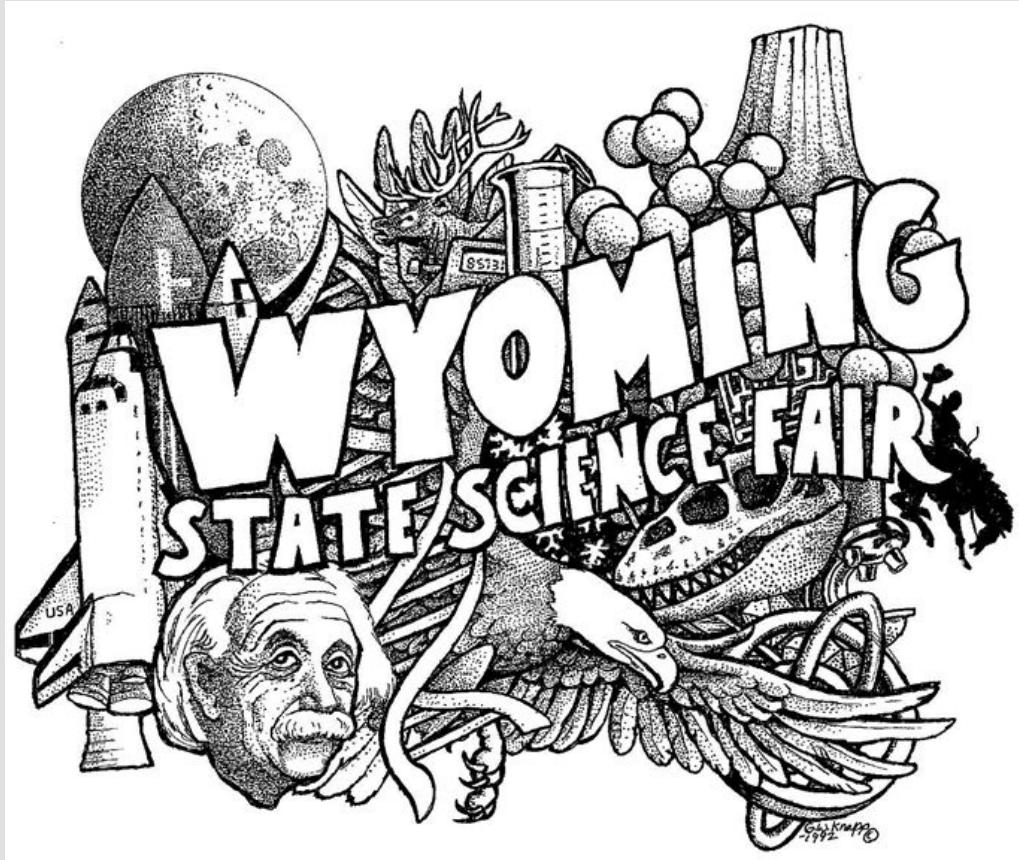


2017 Wyoming State Science Fair Awards





Animal & Plant Sciences

Animal & Plant Sciences -Junior Division



3rd Place

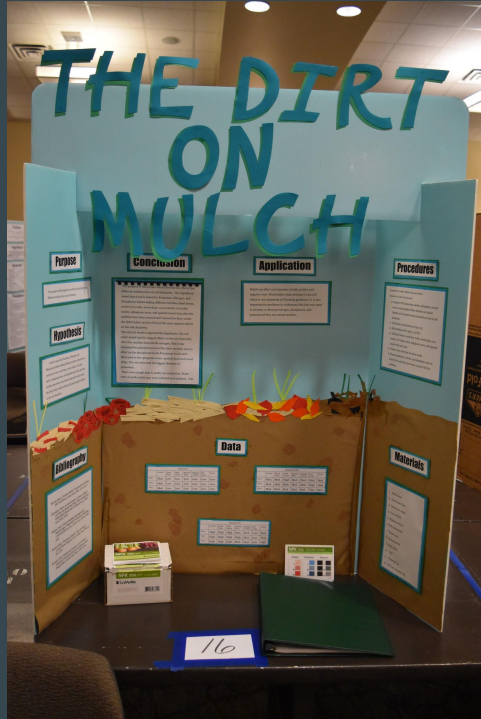
Keeping the Sage in Sage Grouse

Theresa Bautz

Lander Middle School

Lander, WY

Animal & Plant Sciences -Junior Division



2nd Place

The Dirt On Mulch

Tanner Roberts

Pinedale Middle School

Pinedale, WY

Animal & Plant Sciences -Junior Division



1st Place

Artificial Insemination Fresh vs. Frozen
Semen

Bree Coxbill

Southeast Jr/Sr High

Torrington, WY

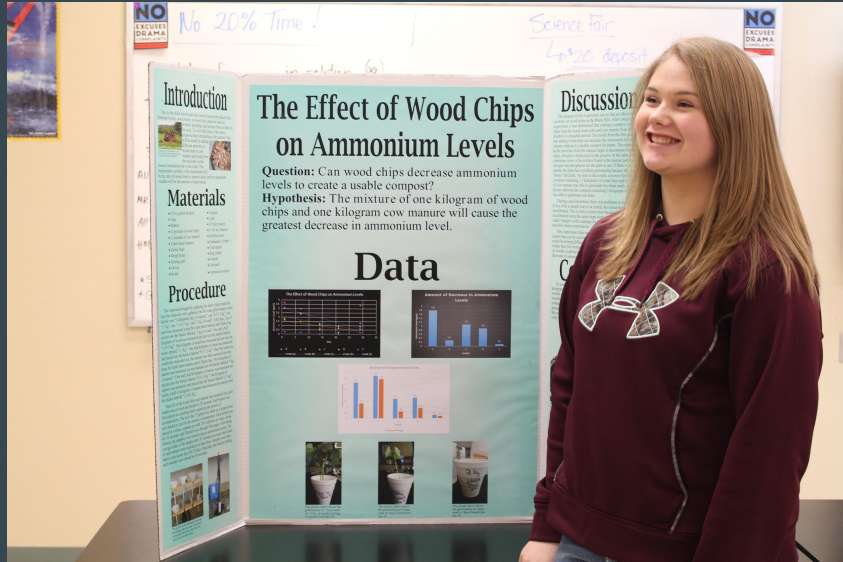
[illegible]

Hydroponics

Newcastle High School

Newcastle, WY

Animal & Plant Sciences -Senior Division



2nd Place

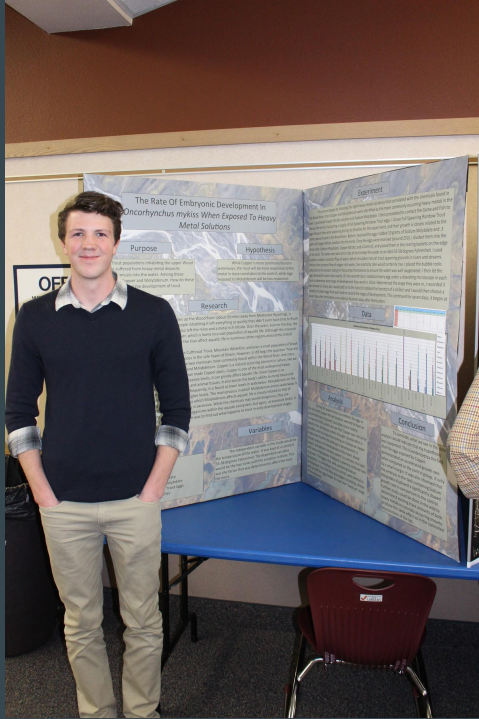
The Effect of Wood Chips on
Ammonium Levels

Courtney Rainbolt

Newcastle High School

Newcastle, WY

Animal & Plant Sciences -Senior Division



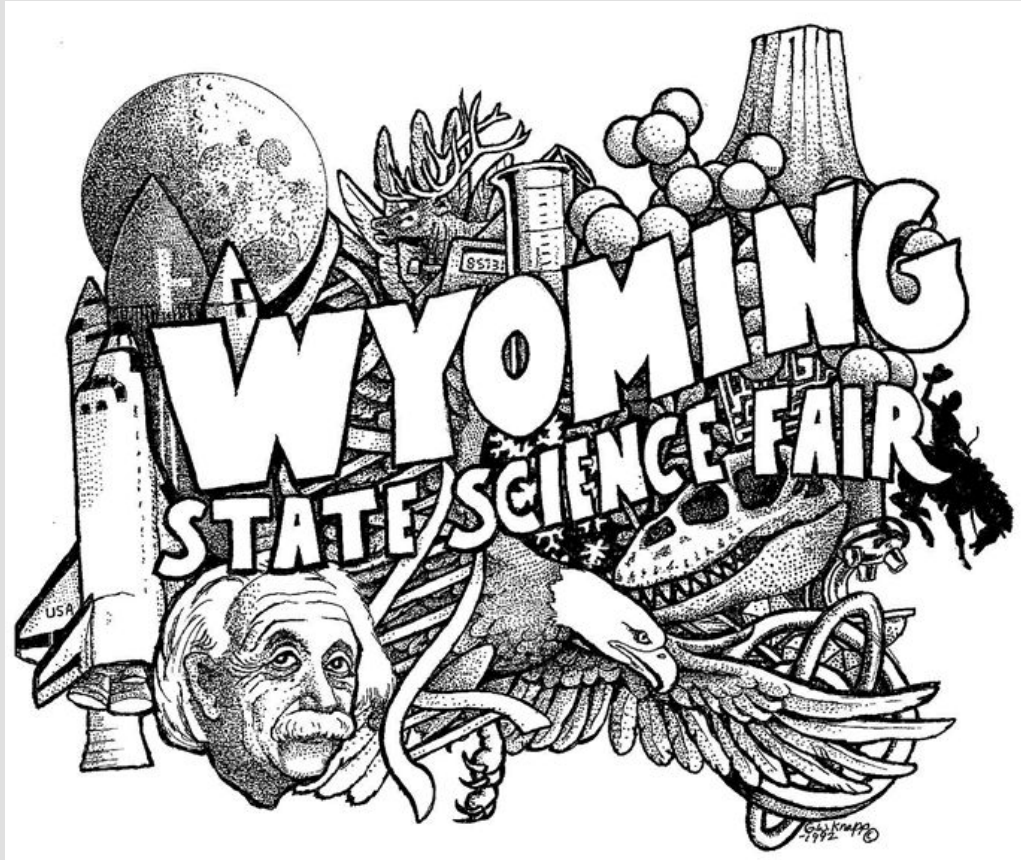
1st Place

The embryonic development of
Oncorhynchus Mykiss When Exposed
to Heavy Metal Solutions

Colton Curtis

Meeteetse High School

Meeteetse, WY



Behavioral & Social Sciences

Behavioral & Social Sciences -Junior Division

3rd Place

When Words Fail Music Speaks

Aiden Chandler and Samuel Belmont

Powell Middle School

Powell, WY



Behavioral & Social Sciences -Junior Division



2nd Place

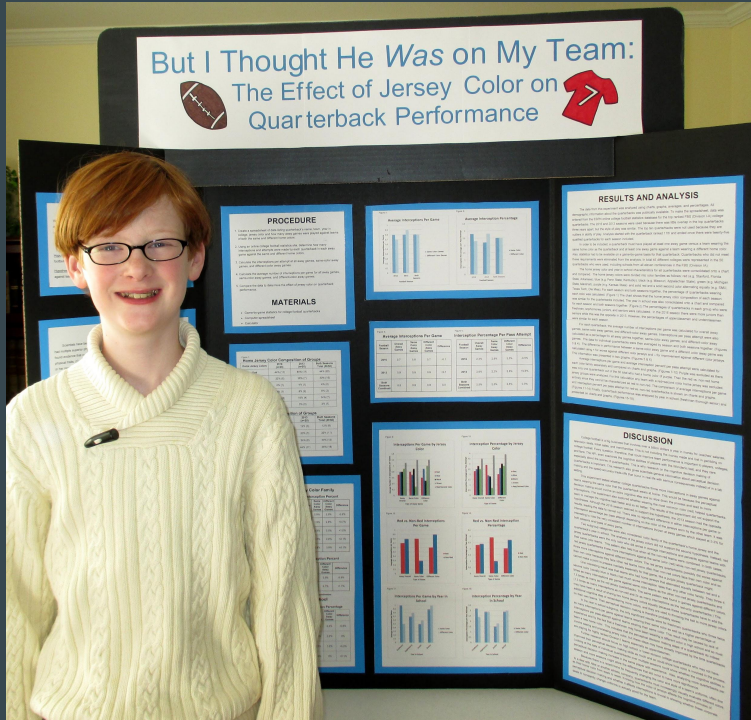
Tall Tales

Gage Gose

Lander Middle School

Lander, WY

Behavioral & Social Sciences -Junior Division



1st Place

But I Thought He Was On My Team!
The Effect of Jersey Color on
Quarterback Performance

Colmcille Rottinghaus

Lander Catholic Home School

Lander, WY

Behavioral & Social Sciences -Senior Division

3rd Place

Liar, Liar

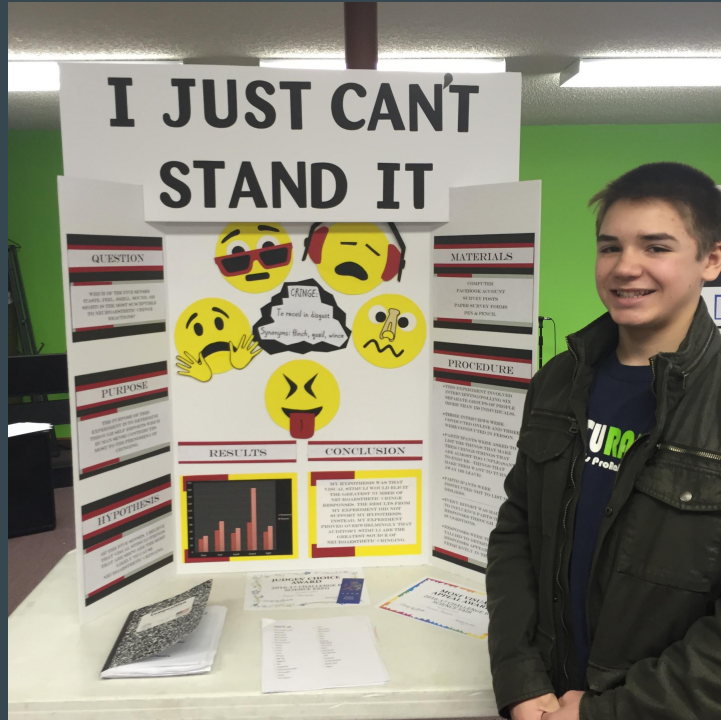
Heather Michaelis and Megan Kenney

Newcastle High School

Newcastle, WY



Behavioral & Social Sciences -Senior Division



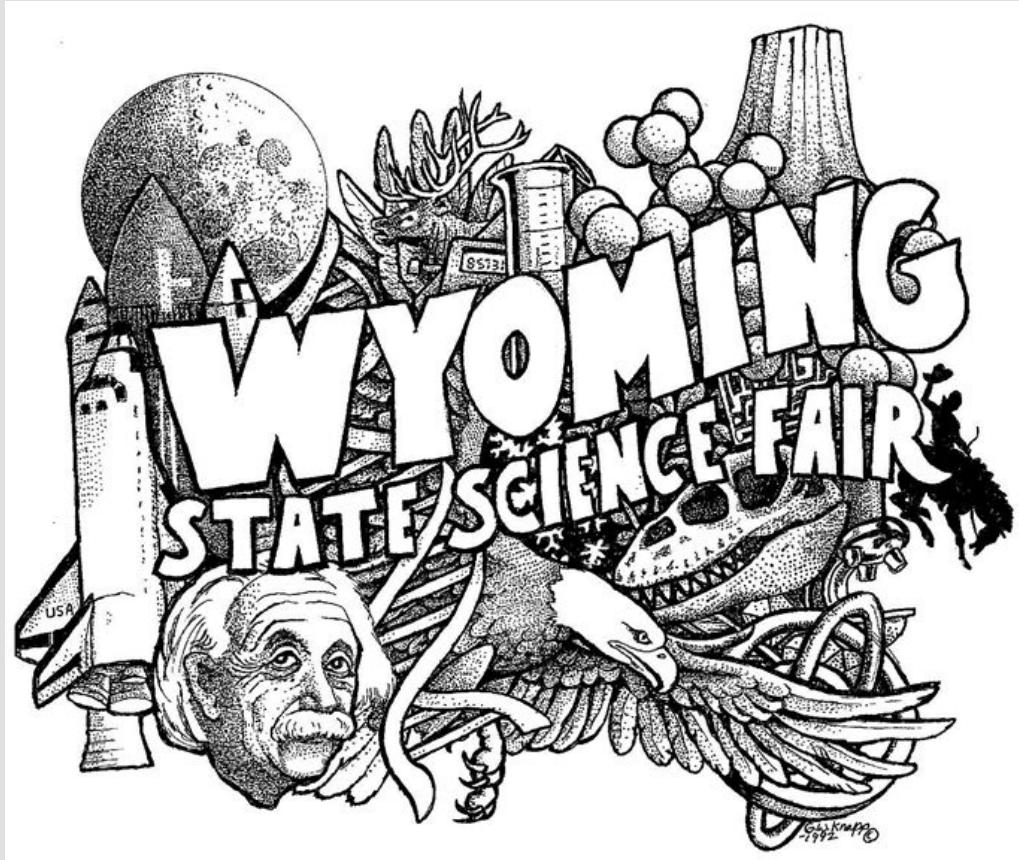
2nd Place

I Just Can't Stand It

Samuel Palmer

Casper Homeschool

Casper, WY



Biochemistry & Biological Sciences

Biochemistry & Biological Sciences -Junior Division

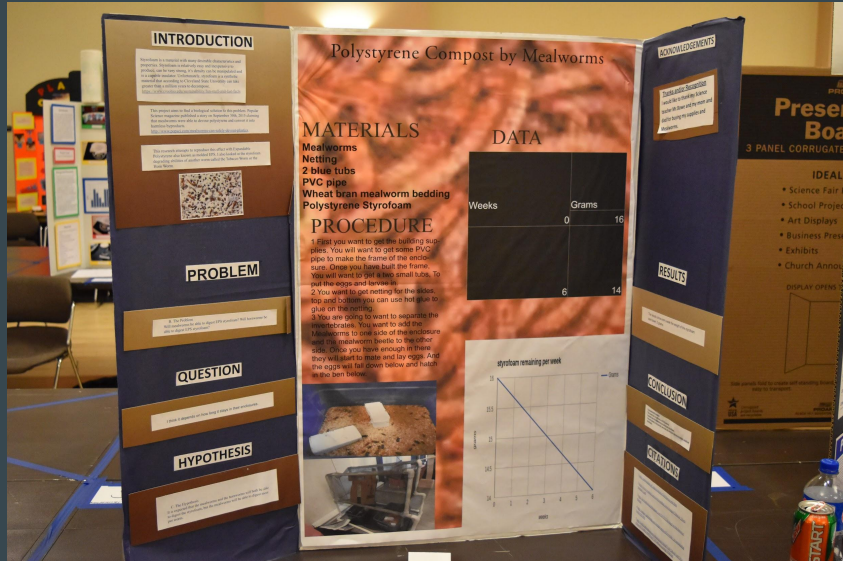
3rd Place

Polystyrene Compost By Mealworms

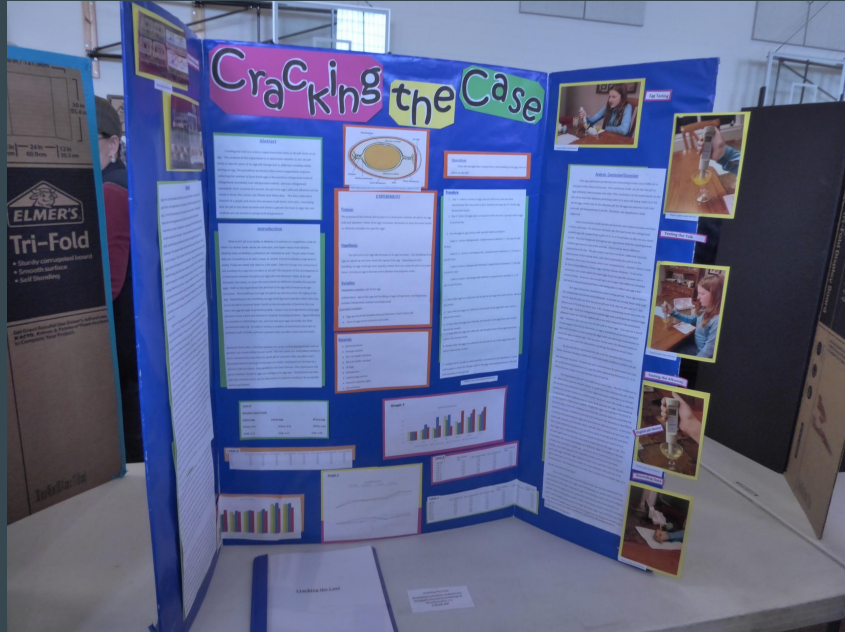
Weston Haley

Greybull Middle School

Greybull, WY



Biochemistry & Biological Sciences -Junior Division



2nd Place

Cracking the Case

Bailey Benson

Wheatland Middle School

Wheatland, WY

Biochemistry & Biological Sciences -Junior Division



1st Place

The 81mg Flip

Riley Shaw

Lusk Middle School

Lusk, WY

Biochemistry & Biological Sciences -Senior Division



2nd Place

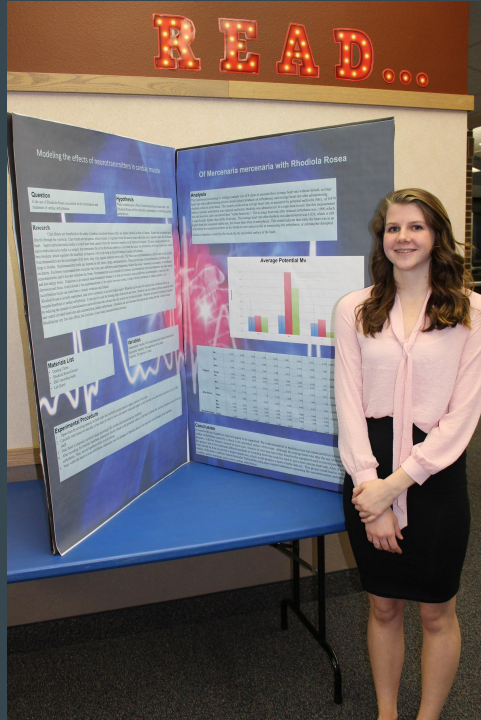
Investigating possible Reduction of Beta-Amyloid Plaques Through the Synergistic Action of Cinnamon and Curcumin

Julianne Carlson

Greybull High School

Greybull, WY

Biochemistry & Biological Sciences -Senior Division



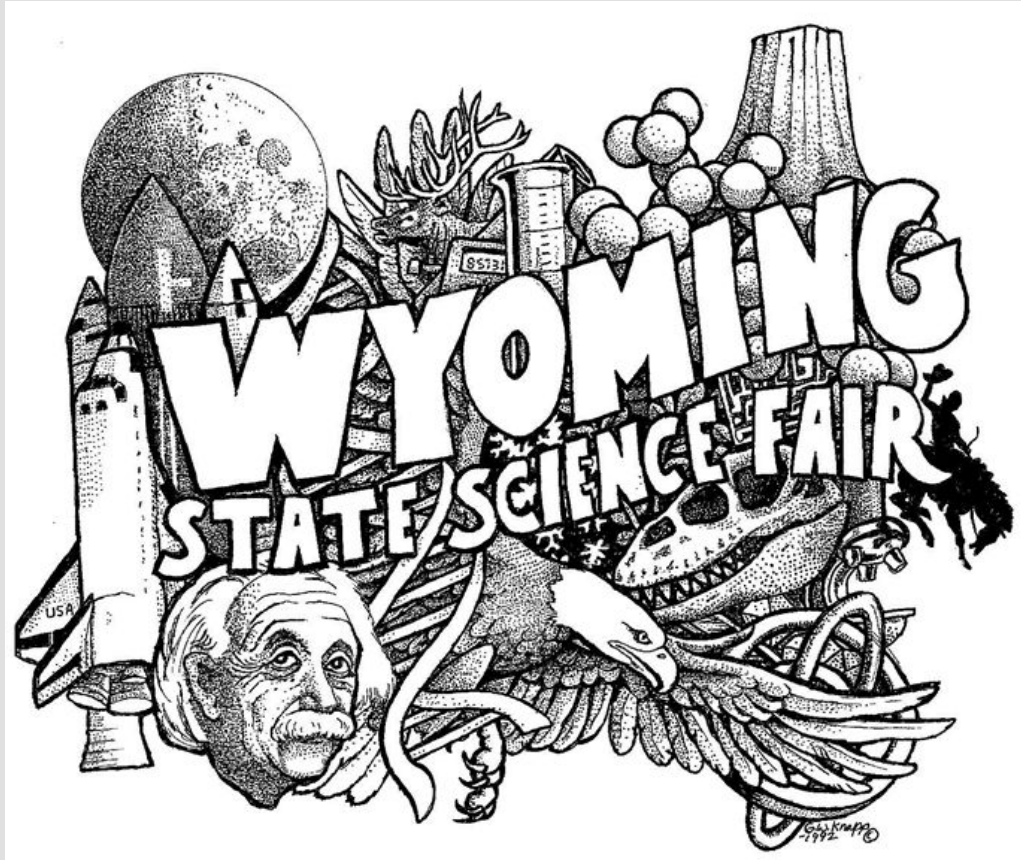
1st Place

Modeling the Effects of
Neurotransmitters in the Cardiac
Muscle of Mecenari With
Rhodiolarosea

Devon Curtis

Meeteetse High School

Meeteetse, WY



**Chemistry/
Energy:
Chemical**

Chemistry/ Energy: Chemical -Junior Division

3rd Place

Got Glow?

Jaycee Myrtle and Sheela Flury

Southeast School

Torrington, WY



Chemistry/ Energy: Chemical -Junior Division



2nd Place

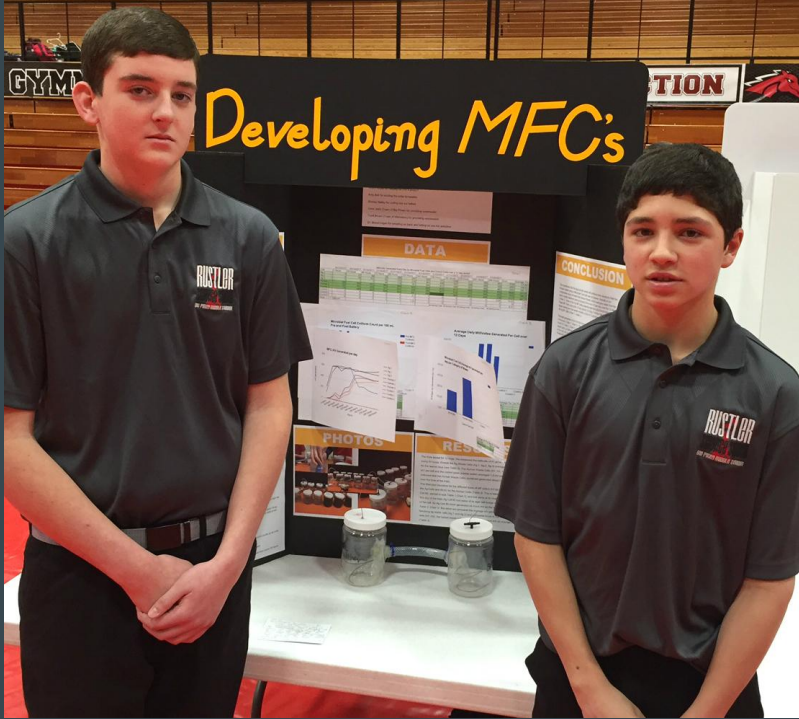
Once Upon Again: Rechargeable Tin Batteries

Abby Copeland

Lander Middle School

Lander, WY

Chemistry/ Energy: Chemical -Junior Division



1st Place

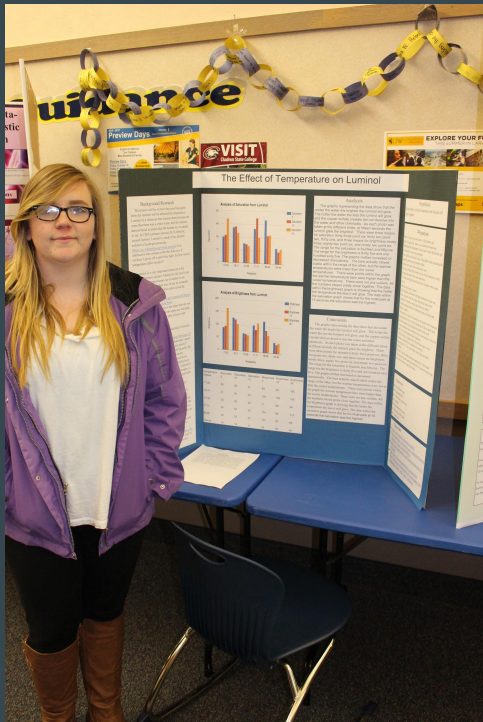
Developing Microbial Fuel Cell

Carlos Munoz and Nathan Maxfield

Big Piney Middle School

Marbleton & Big Piney, WY

Chemistry/ Energy: Chemical -Senior Division



3rd Place

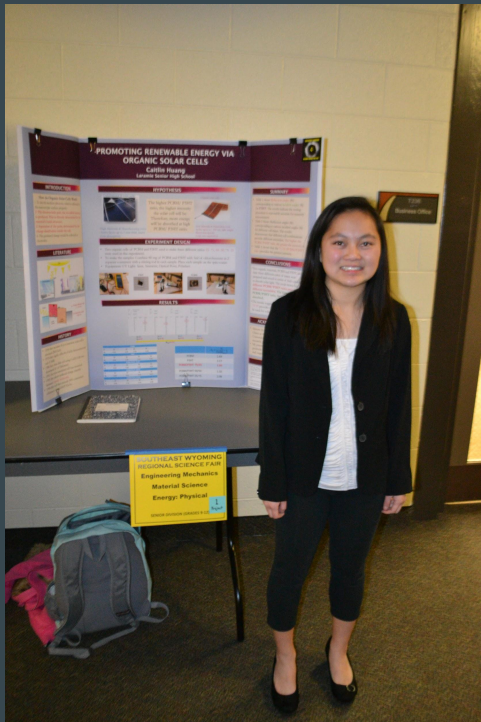
The Effect of Temperature on Alminol

Alicia Brock

Meeteetse High School

Meeteetse, WY

Chemistry/ Energy: Chemical -Senior Division



2nd Place

Promoting Renewable Energy Via
Organic Solar Cells

Caitlin Huang

Laramie High School

Laramie, WY

Chemistry/ Energy: Chemical -Senior Division



1st Place

Application of Plant Hormones to
Microalgae Cultures to Increase the
Availability of Lipids for Biofuel
Production

Makyela Sorensen

Greybull High School

Greybull, WY



Engineering Sciences & Energy: Physical

Engineering Sciences & Energy: Physical -Junior Division

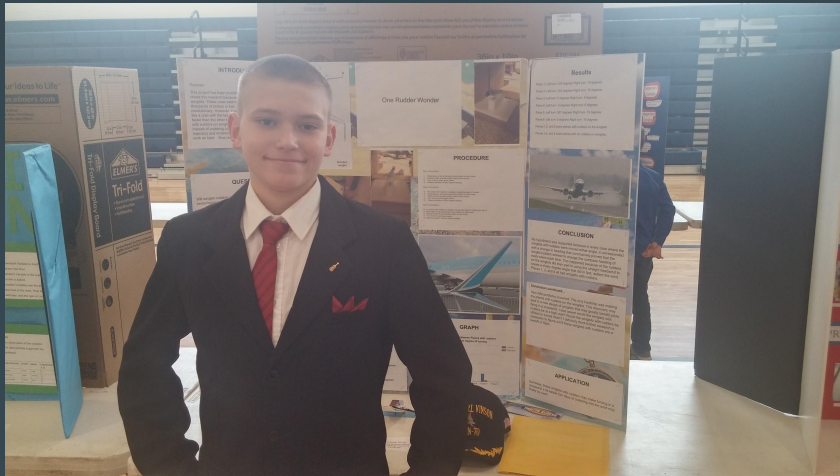
3rd Place

One Rudder Wonder

Charles Koval

Sheridan Junior High

Sheridan, WY



Engineering Sciences & Energy: Physical -Junior Division

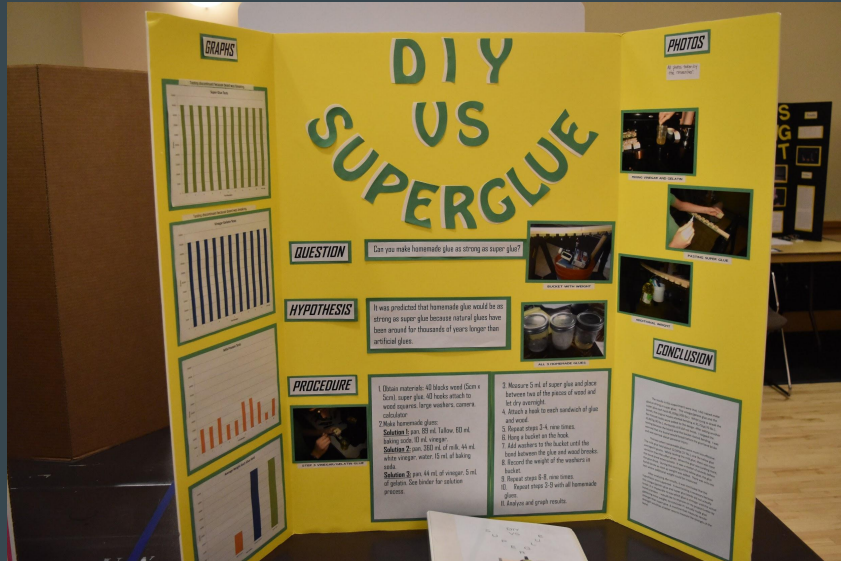
2nd Place

DIY Vs Super Glue

Nathan Ulery

Holy Name Catholic School

Sheridan, WY



Engineering Sciences & Energy: Physical -Junior Division



1st Place

Delta Power

Ethan Adkins

Pinedale Middle School

Pinedale, WY

Engineering Sciences & Energy: Physical -Senior Division

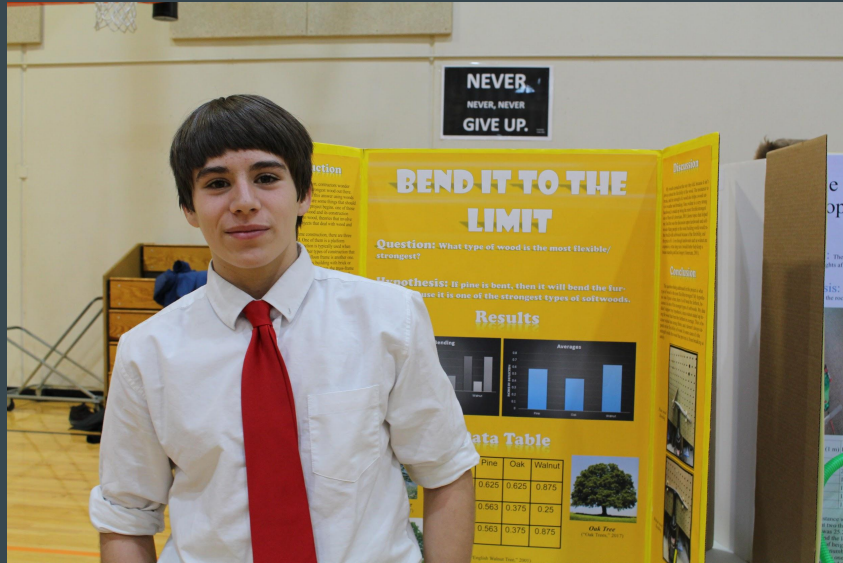
3rd Place

Bend It To The Limit

Bradyn Frye

Newcastle High School

Newcastle, WY



Engineering Sciences & Energy: Physical -Senior Division

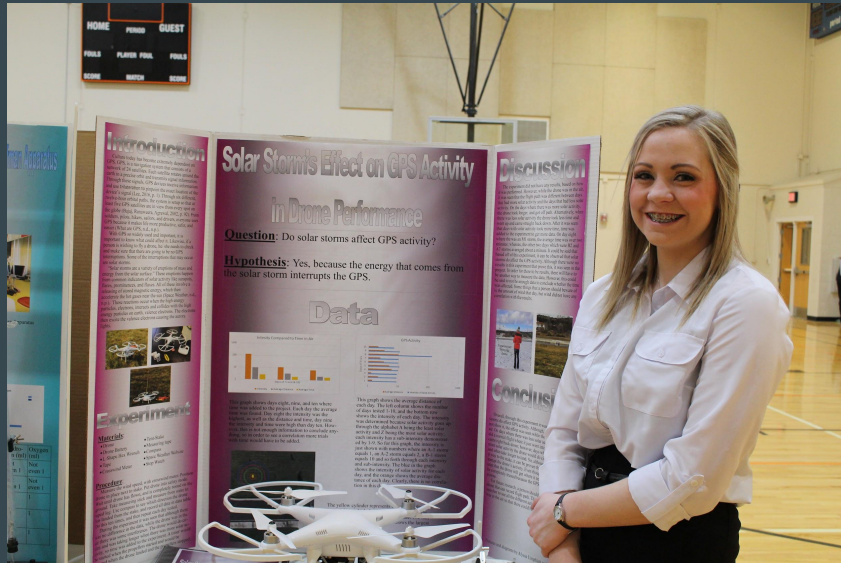
2nd Place

Solar Storm's Effect on GPS Activity in
Drone Performance

Alyssa Umphlett

Newcastle High School

Newcastle, WY



Engineering Sciences & Energy: Physical -Senior Division

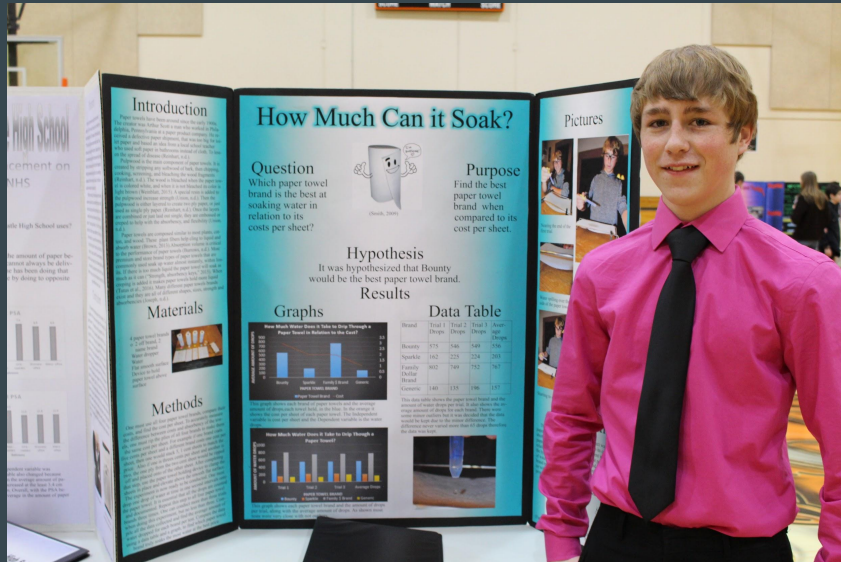
1st Place

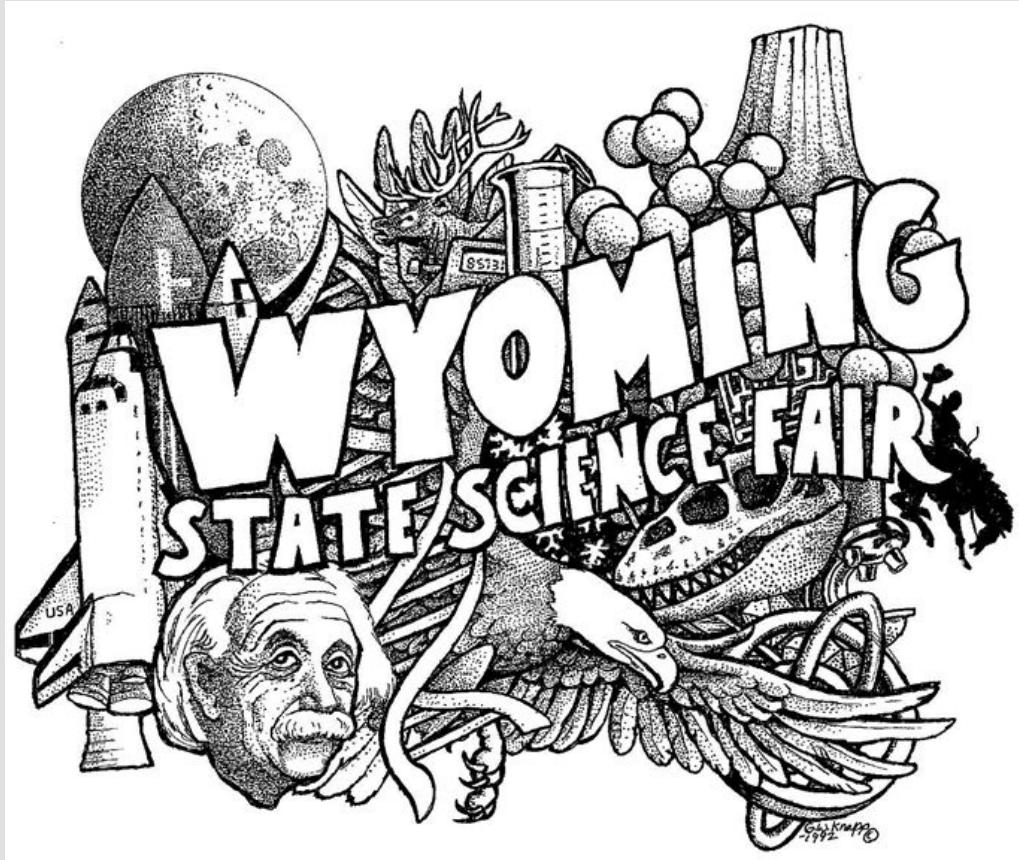
How Much Can it Soak?

Jacob Rhoades

Newcastle High School

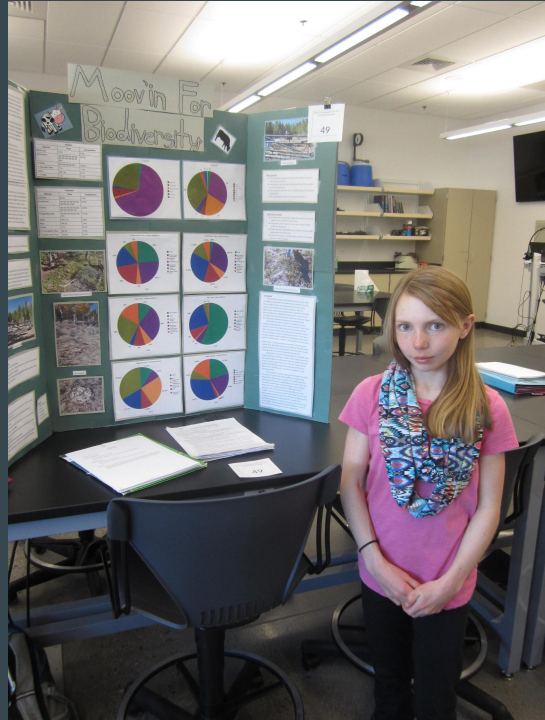
Newcastle, WY





Environmental Sciences & Engineering

Environmental Sciences & Engineering -Junior Division



3rd Place

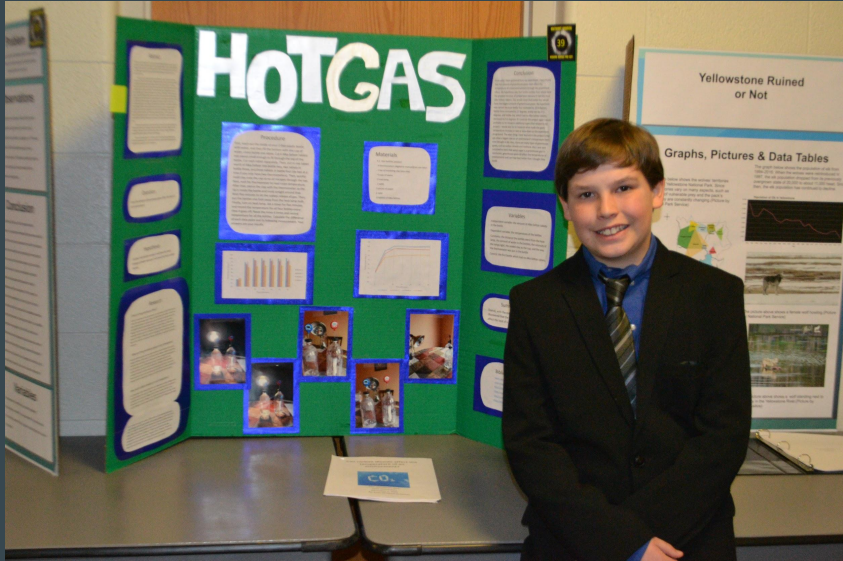
Moovin' For Biodiversity

Sierra Lloyd

Lander Middle School

Lander, WY

Environmental Sciences & Engineering -Junior Division



2nd Place

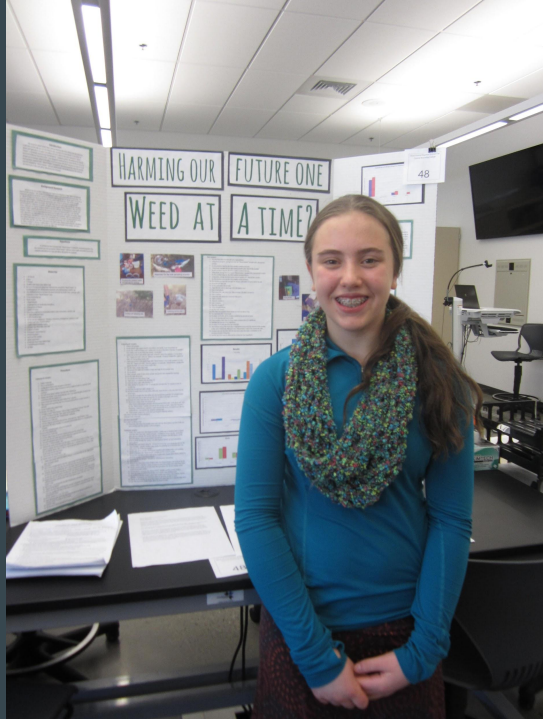
Hot Gas

Evan Anderson

Davis Elementary

Cheyenne, WY

Environmental Sciences & Engineering -Junior Division



1st Place

Harming Our Future One Weed At A Time

Mia Copeland

Lander Middle School

Lander, WY

Environmental Sciences & Engineering -Senior Division



3rd Place

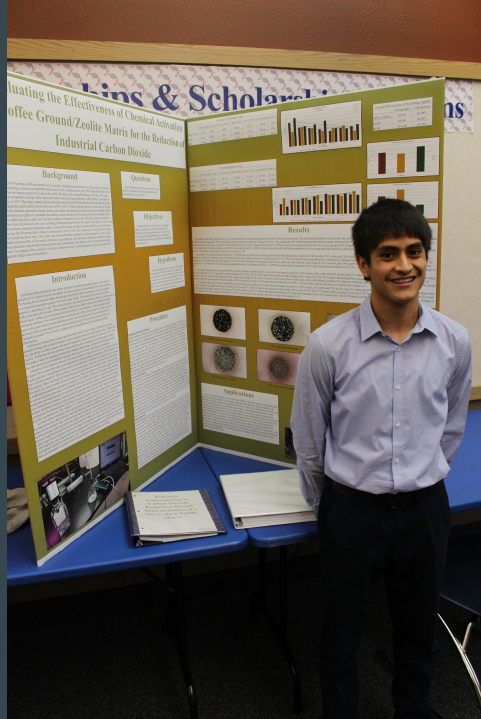
Evaluating The Effectiveness Of A
Hydrogel-Fertilizer Matrix To Improve
Seed Germination

Dante Sylvester

Greybull High School

Greybull, WY

Environmental Sciences & Engineering -Senior Division



2nd Place

Evaluating The Effectiveness Of Chemical
Activation Of Coffee Ground/Zeolite
Matrix For The Reduction Of Industrial
Carbon Dioxide

Eduardo Burgos

Greybull High School

Emblem, WY

Environmental Sciences & Engineering -Senior Division



1st Place

Determination Of Soil VOC Content
Due To Coal Dust Deposition Along
Major Railroad Transportation Routes

Sierra Spears

Lingle-Fort Laramie High

Lingle, WY

Mathematics



Mathematics -Junior Division



3rd Place

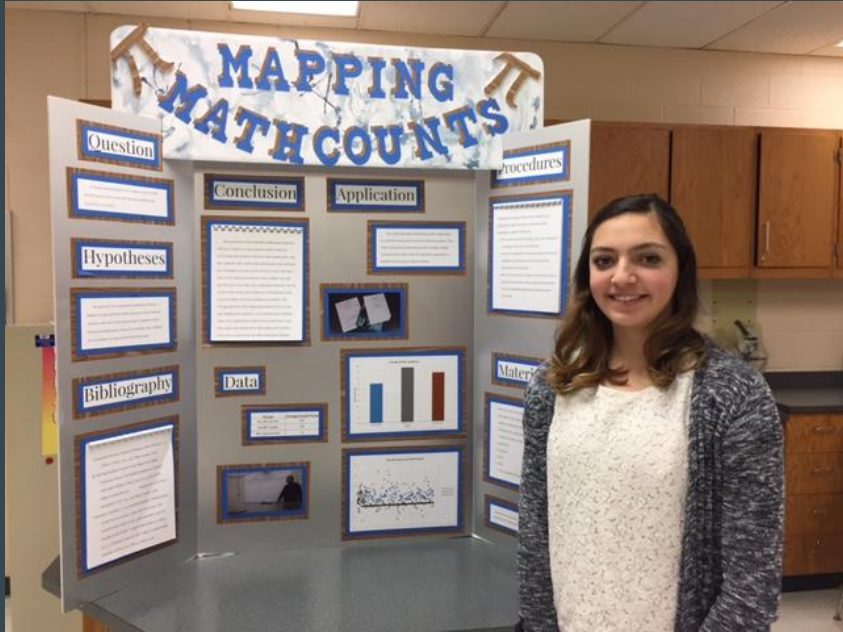
Stepping High

Benjamin Browning

Lander Middle School

Lander, WY

Mathematics -Junior Division



2nd Place

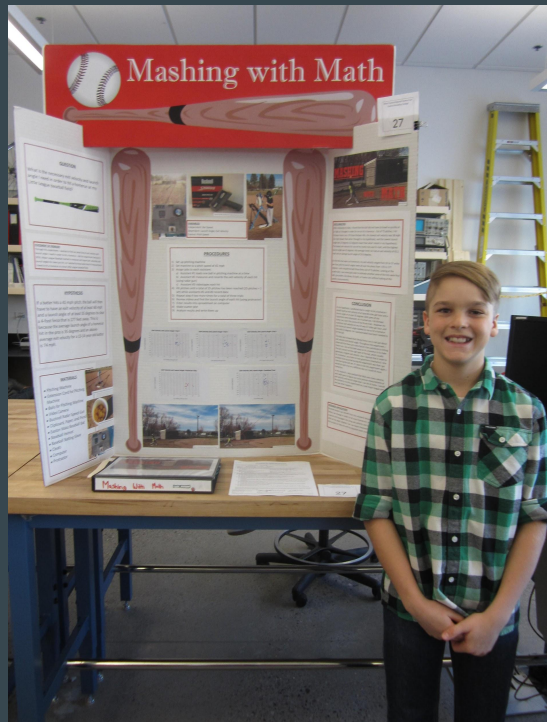
Mapping Math Counts

Preslie Simkins

Pinedale Middle School

Pinedale, WY

Mathematics -Junior Division



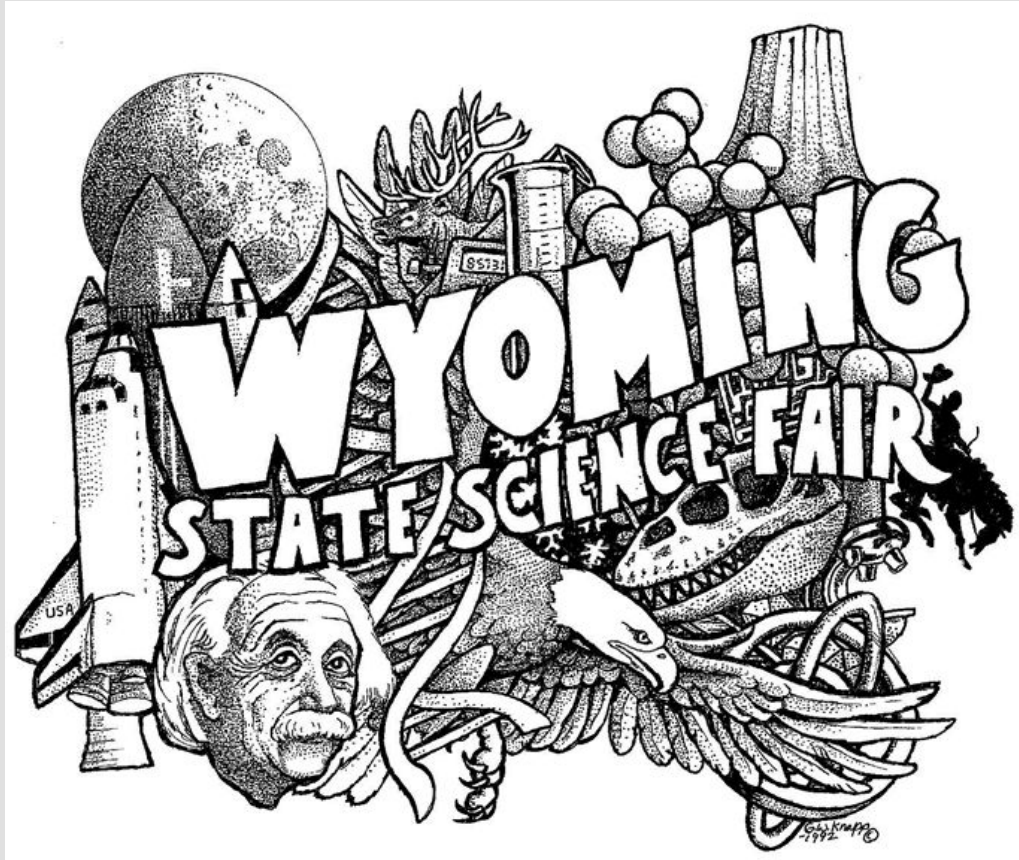
1st Place

Smashing With Math

Gabriel Harris

Lander Middle School

Lander, WY



Medical Sciences

Medical Sciences -Junior Division



3rd Place

To Mars & Back Again : Designing A Medical 3D Print To Advance Long Term-Human Space Exploration

Jakobi Hibbert

Big Piney Middle School

Big Piney, WY

Medical Sciences -Junior Division

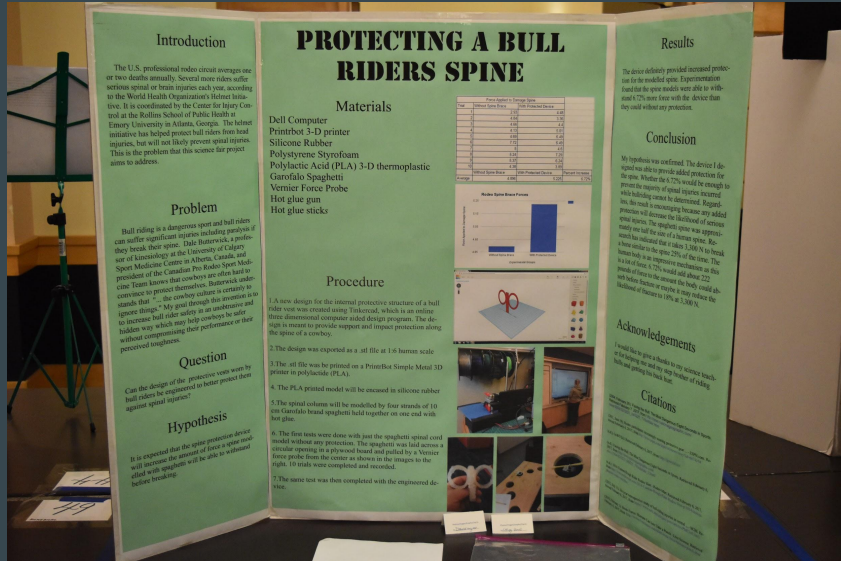
2nd Place

Protecting A Bull Riders Spine

Isabella Lungren

Greybull Middle School

Greybull, WY



Medical Sciences -Junior Division



1st Place

Concussion Effects

Riley Schiller and Jace Bohlman

Powell Middle School

Powell, WY

Medical Sciences -Senior Division



3rd Place

A Swell In “Solution For Obesity”

Arundathi Nair

Laramie High School

Laramie, WY

Medical Sciences -Senior Division



2nd Place

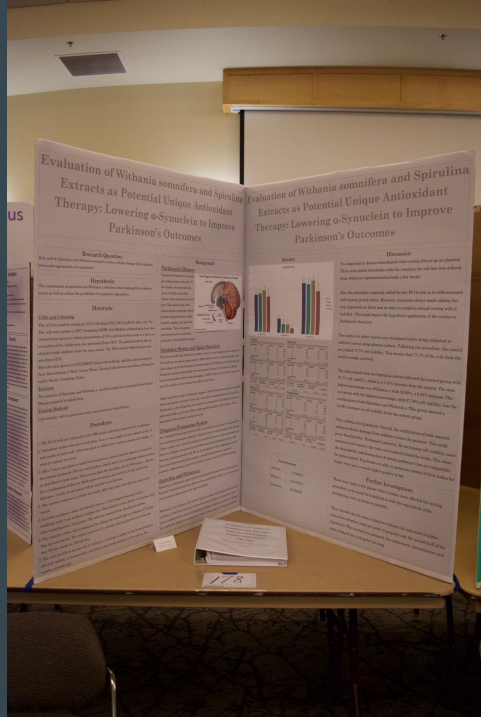
Cutting Edge Engineering: The Engineering Project Focused On Creating A Scalpel That Will Prevent Artery Nicks In Surgery

Adrianna Ruby and Destiny Reed

Big Piney Middle High School

Big Piney, WY

Medical Sciences -Senior Division



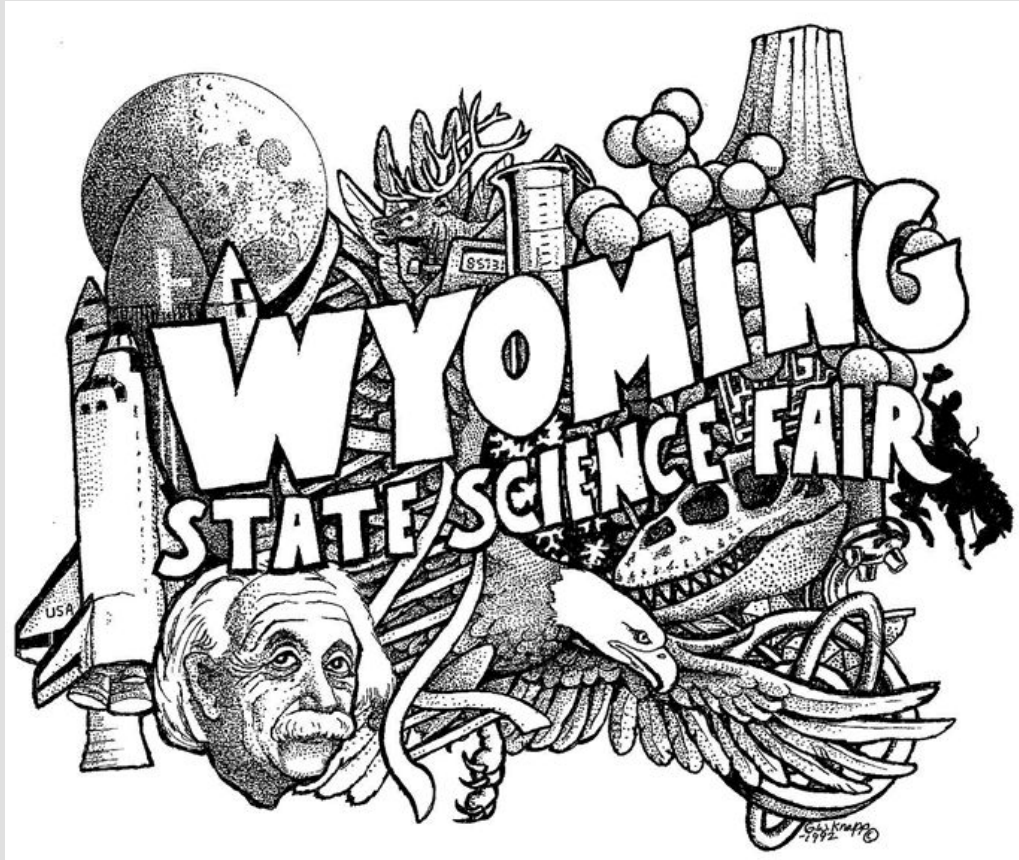
1st Place

Extracts As Potential Unique
Antioxidant Therapy: Lowering
 α -synuclein to Improve Parkinson's
Outcomes

Anna Savage

Greybull High School

Greybull, WY



Microbiology

Microbiology -Junior Division



3rd Place

Glo-Away Germs

Sabrina Donaldson

Pinedale Middle School

Pinedale, WY

[illegible]

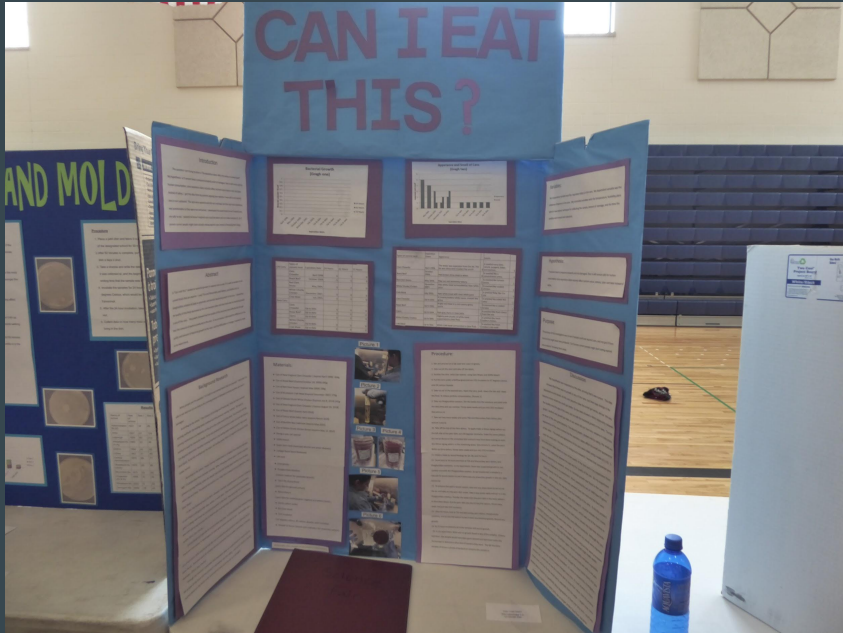
CO₂ Removal with a Photobioreactor

Torrey Sanford

Greybull Middle School

Greybull, WY

Microbiology -Junior Division



1st Place

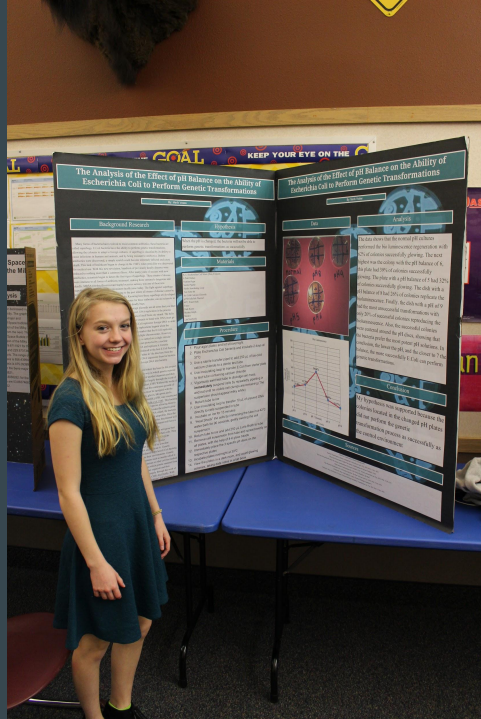
Can I eat this?

Anna Cecil

Wheatland Middle School

Wheatland, WY

Microbiology -Senior Division



3rd Place

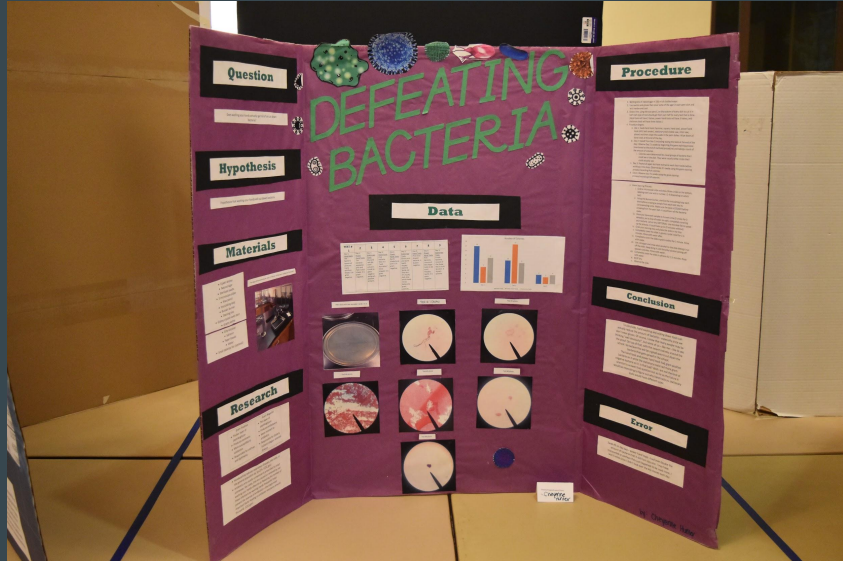
The Analysis of the Effect of pH Balance on the Ability of Escherichia Coli to Perform Genetic Transformations

Merik Votaw

Meeteetse High School

Meeteetse, WY

Microbiology -Senior Division



2nd Place

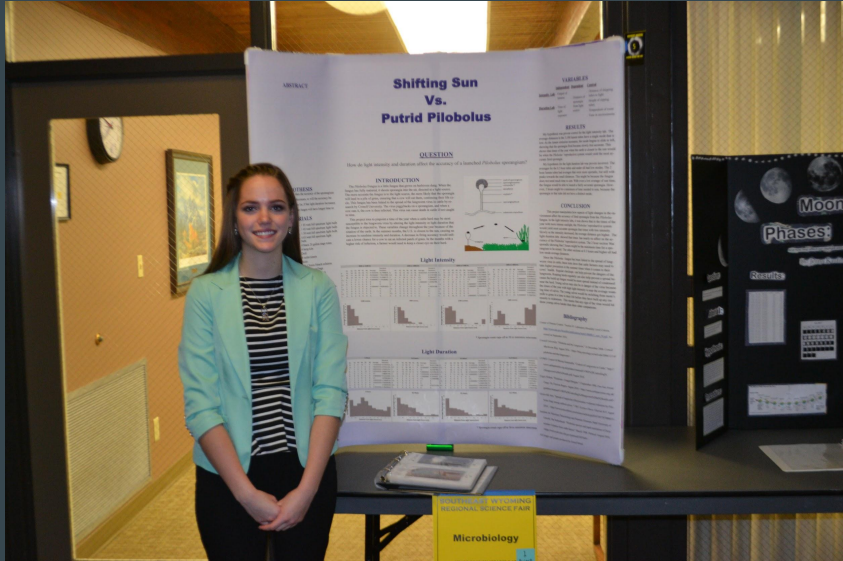
Defeating Bacteria

Cheyenne Hunter

HEM Jr./Sr. High School

Hanna, WY

Microbiology -Senior Division



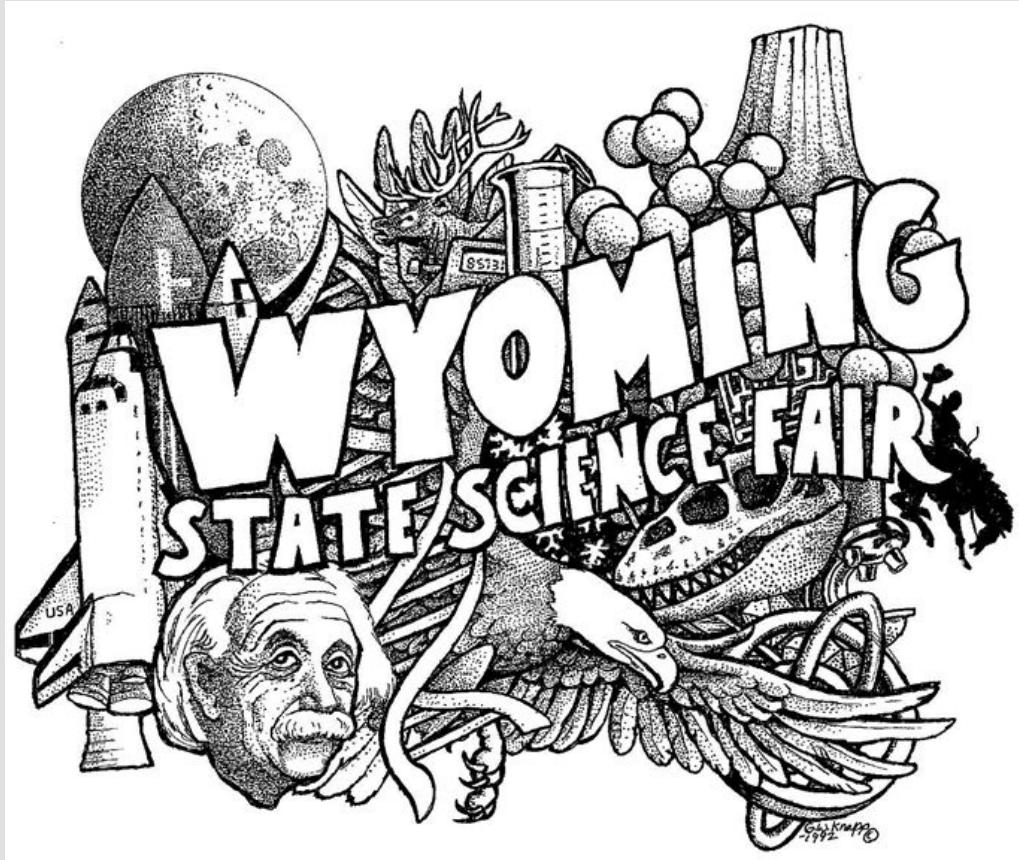
1st Place

Shifting Sun v.s. Putrid Pilobolus

Jennel Mead

Cheyenne South High School

Cheyenne, WY



Physics & Astronomy

Physics & Astronomy -Junior Division

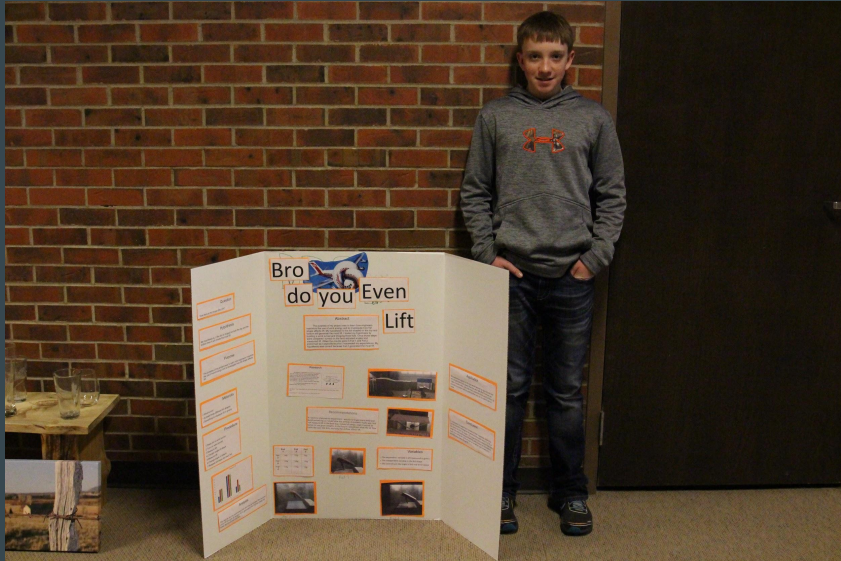
3rd Place

Bro, Do You Even Lift?

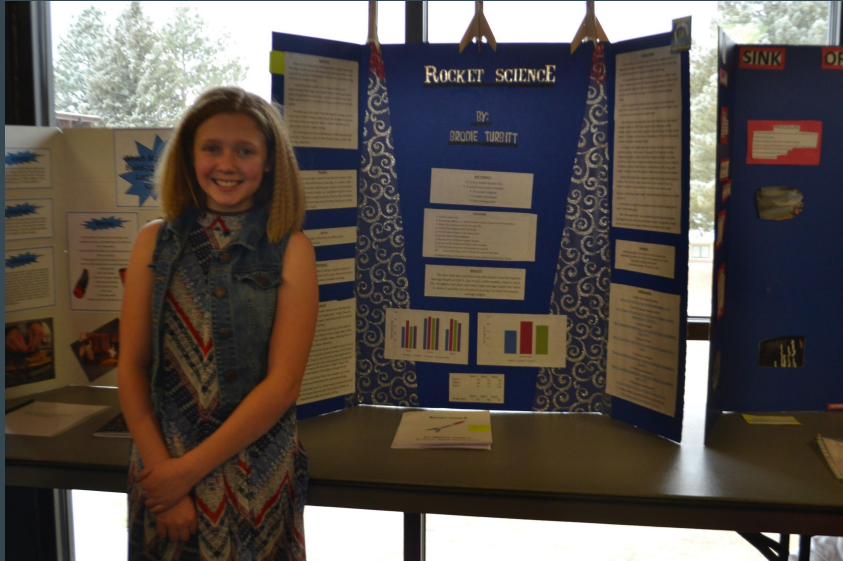
Tristan Smith

Saratoga Middle School

Saratoga, WY



Physics & Astronomy -Junior Division



2nd Place

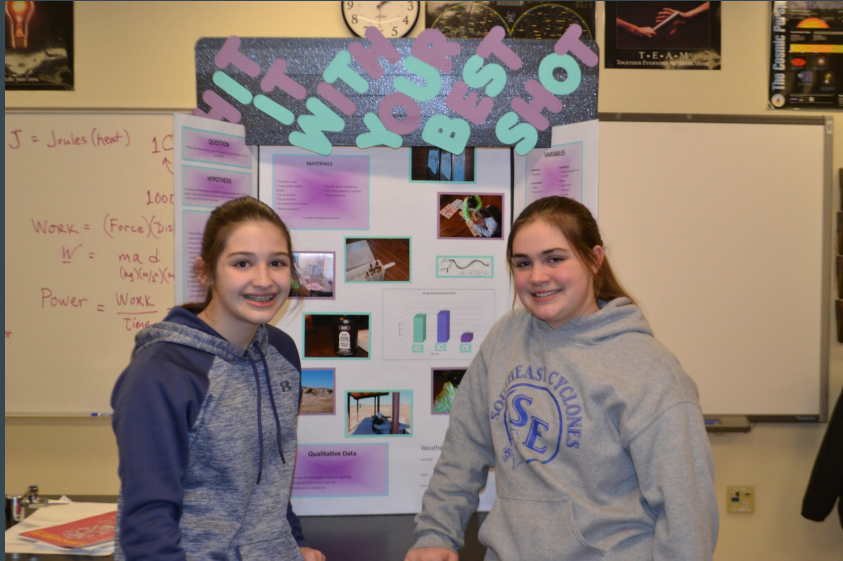
Rocket ScienceE

Brodie Turbitt

Davis Elementary

Cheyenne, WY

Physics & Astronomy -Junior Division



1st Place

Hit It With Your Best Shot

Danielle Clapper & Carly Keller

Southeast Schools

Veteran & Torrington, WY

Physics & Astronomy -Senior Division

3rd Place

The Effect of Potassium Nitrate on
Rocket Fuel

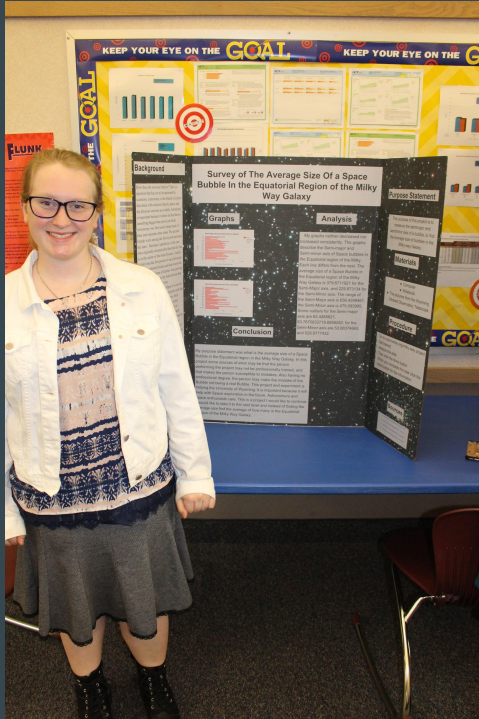
Hunter Liggett

Newcastle High School

Newcastle, WY



Physics & Astronomy -Senior Division



2nd Place

The Average Size of the Space Bubbles
in the Equatorial Region of the Milky
Way Galaxy

Amanda Cooley

Meeteetse

Meeteetse, WY



Robotics & Computer Sciences

Robotics & Computer Sciences -Junior Division

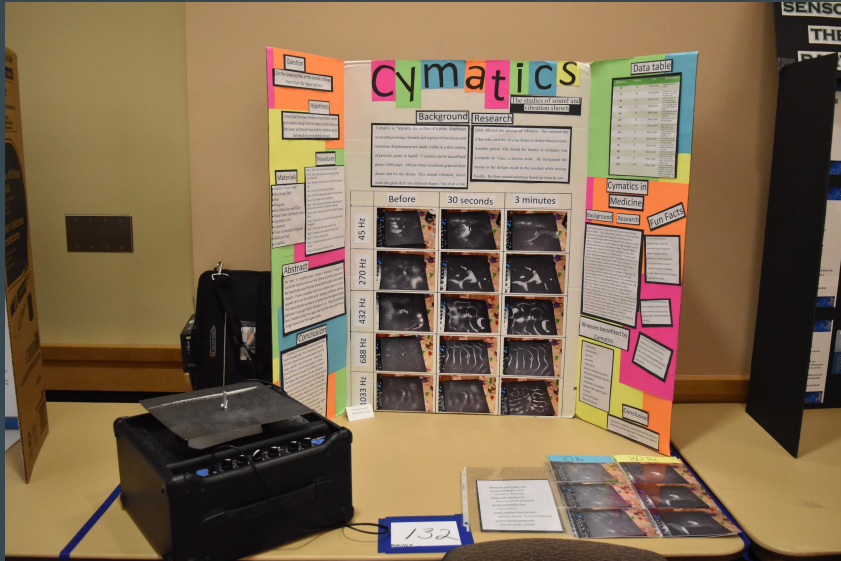
3rd Place

Cymatics

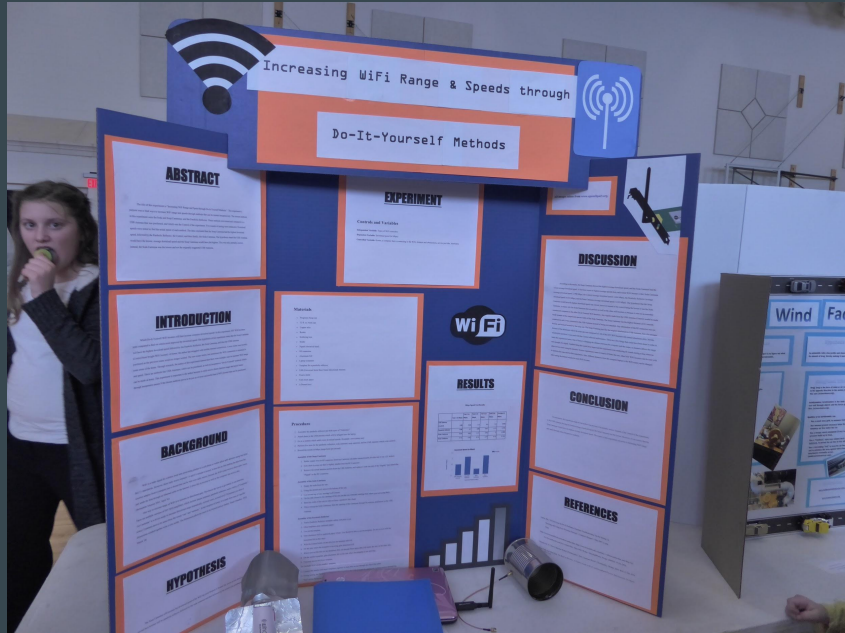
Addison Braten

Powell Middle School

Powell, WY



Robotics & Computer Sciences -Junior Division



2nd Place

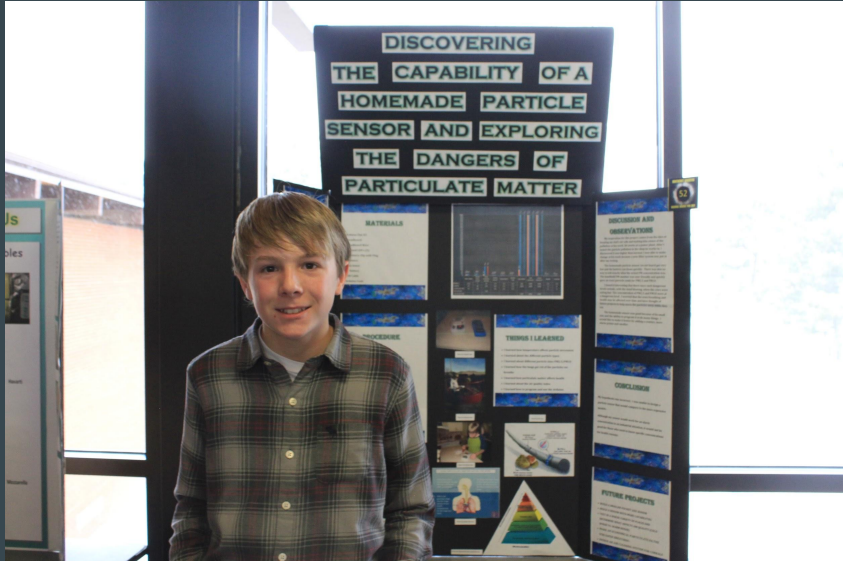
Increasing WiFi Range and Speeds
through Do-It-Yourself Methods

Quinton Lawrence

Wheatland Middle School

Wheatland, WY

Robotics & Computer Sciences -Junior Division



1st Place

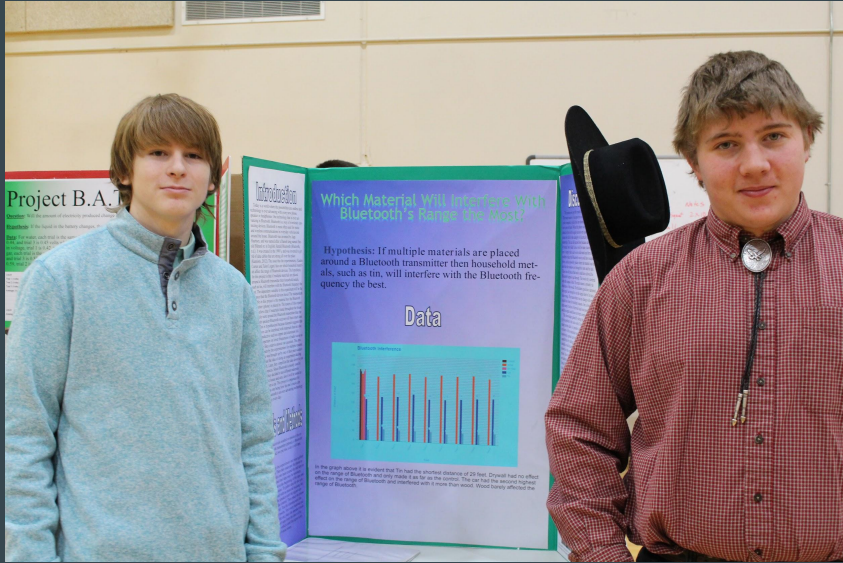
Discovering the Capability of a
Homemade Particle Sensor and
Exploring the Dangers of Particulate
Matter

Kyland Fuller

Lingle-Ft.Laramie Schools

Ft. Laramie, WY

Robotics & Computer Sciences -Senior Division



3rd Place

Which Material Will Effect The
Bluetooth Range The Most?

Kaden Curren & Talon Logan

Newcastle High School

Newcastle, WY

Robotics & Computer Sciences -Senior Division

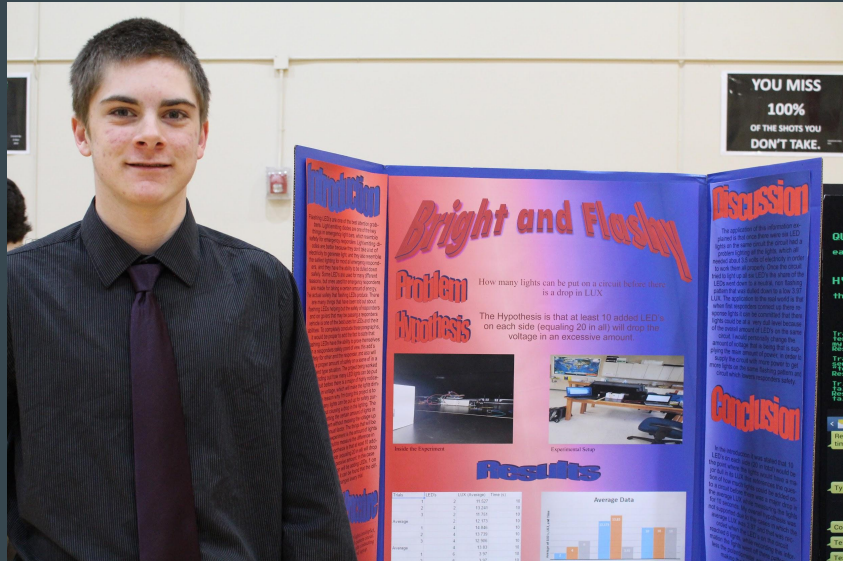
2nd Place

Bright and Flashy

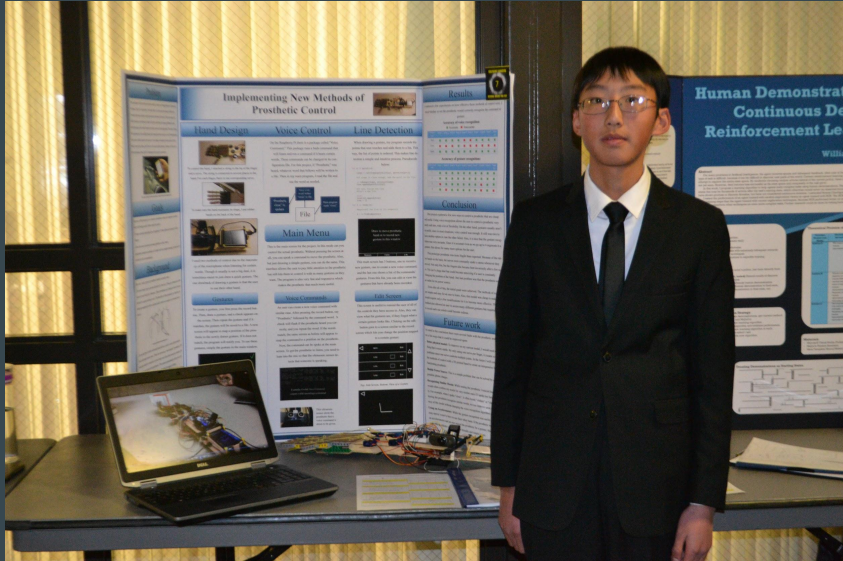
Garrett Merchen

Newcastle High School

Newcastle, WY



Robotics & Computer Sciences -Senior Division



1st Place

Implementing New Methods of
Prosthetic Control

Qingfeng Li

Laramie High School

Laramie, WY

