

## 2026 FINAL AWARDS

### SENIOR DIVISION SWEEPSTAKES WINNERS

The first place (Marcus J. Friskop Sweepstakes) winner received a plaque, a \$200 cash award from the Marcus J. Friskop Family, a \$700 cash award from the University of North Dakota College of Engineering & Mines, and a 1 Year \$3000 Scholarship to the University of North Dakota and will advance to the ISEF in Phoenix, Arizona and will exhibit his/her project.

The second place (sweepstakes runner-up) winner received a plaque, a \$350 cash award from the University of North Division School of Aerospace Sciences, and a 1 Year \$2500 Scholarship to the University of North Dakota and will advance to the ISEF in Phoenix, Arizona and will exhibit his/her project.

The third place (sweepstakes 2nd runner-up) winner received a plaque, a \$250 cash award from the University of North Dakota College of Nursing & Professional Disciplines, and a 1 Year \$1500 Scholarship to the University of North Dakota and will advance to the ISEF in Phoenix, Arizona and will exhibit his/her project.

#### *Senior Division – 1st Place – Sweepstakes Winner*

Ava Hauck, Dickinson School District, "Embedded Vision Hardware for Medical Screening in Low- Resource Settings"

#### *Senior Division – 2nd Place – Sweepstakes Runner-Up*

Sev Johann Caldon, Davies High School, "Turning Waste Styrofoam into Water-Repellent Coatings"

#### *Senior Division – 3rd Place – Sweepstakes Second Runner-Up*

Amaa Wijetunga, Red River High School, "Hydrodetectives 2.0"

### SENIOR DIVISION PLACE WINNERS

Projects that are selected as finalists received a gold plaque and will advance to the ISEF in Columbus Ohio in May and will exhibit their project.

Projects selected as alternates received a silver plaque and are alternates to the ISEF in Columbus Ohio in May but will not exhibit their project unless a finalist from that region cannot attend.

#### **Northwest Region**

1st Finalist: Jaxson Cowan, Williston High School, "Quantum Batteries: The Future of Energy"

2nd Finalist: Abigail Ferguson, Tioga Public School, "FerAppease Effects on Cattle During Stressful Times"

1st Alternate: Harper Ferguson, Tioga Public School, "Biological Amendments-How They Impact Plant and Soil Health"

## North Dakota State Science and Engineering Fair

2nd Alternate: Piper Wonser, Tioga Public School, "Let it Grow"

3rd Alternate: Dwayne Declaro, Tioga Public School, "Electromagnetic Generator"

### Southwest Region

1st Finalist: Madalyn Bohl & Cassy Hartman, Flasher Public School, "Evaluation of Organic Acids for Reducing Soil Alkalinity"

2<sup>nd</sup> Finalist: Radheeka Weeraratne, Dickinson High School, "Biogenic Hydrogen as Renewable Energy: Using *R. palustris* TIE-1 to Inform Synthetic Microbial Design"

1<sup>st</sup> Alternate: Jocelyn Zingg, Flasher Public School, "Role of Nitrogen and Phosphorus in Enhancing Sorghum Growth and Performance"

2<sup>nd</sup> Alternate: Adam Schneider, Glen Ullin Public School, "Absorbency Efficiency of Ultra-Activated Carbon"

3<sup>rd</sup> Alternative: Brinley Meyer & Leighton Zenker, Flasher Public School, "Simulating the Environmental Impact of Cigarette Butt Waste in Aquatic Systems"

### Southeast Central Region

1st Finalist: Aubrey Isakson, Kidder County, "Sustainable Agriculture Enabled by Biodegradable Hydrogels for Improved Water and Nutrient Management"

2<sup>nd</sup> Finalist: Karly Rivinius, Gackle-Streeter Public School, "Madigan Squeeze"

1<sup>st</sup> Alternate: Noah Welch, Hankinson Public School, "How Does Diabetes and Other Related Health Conditions Effect Mental Health"

2<sup>nd</sup> Alternate: Ava Frolek, Lidgerwood Public School, "Plastic vs. Plastic"

3<sup>rd</sup> Alternate: Helen Wu, Davies High School, "Development of a ML-QSAR Model for Predicting Corrosion Inhibition Efficiency of Organic Compounds"

### Northeast Region

1st Finalist: Katelyn Hur, Red River High School, "AD-Stage-Net: AI for Alzheimer's MRI Classification"

1<sup>st</sup> Alternate: Layton Pribula, Red River High School, "Manipulating the World Using Acoustic Levitation"

2<sup>nd</sup> Alternate: Che Yu, Red River High School, "Real-Time Tracking and Location of Persons Through an AI Assisted Camera Network"

## North Dakota State Science and Engineering Fair

### JUNIOR DIVISION SWEEPSTAKES WINNERS

The first place (Sweepstakes) winner received a gold state plaque and a \$200 cash award from NDEAVOR

The second place (Sweepstakes Runner-Up) winner received a silver plaque and a \$150 cash award from NDEAVOR

#### **Junior Division – 1st Place – Sweepstakes Winner**

Emma Flynn, Schroeder Middle School, “To Heat or to Cool, That is the Question”

#### **Junior Division – 2nd Place – Sweepstakes Runner-Up**

Lydia Chambers, Capstone Classical Academy, “Simulating Limited Mobility”

### JUNIOR DIVISION PLACE WINNERS

All first and second place winners received a gold plaque. All third, fourth, and fifth place winners received a silver plaque.

#### **Northwest Region**

1st Place: Molly Danks, Tioga Public School, “Prevention of Evaporation”

2nd Place: Amber Wilhlmy, Tioga Public School, “Lead In Drinking Water”

3rd Place: Carson Placek, Tioga Public School, “Air Matrix”

4th Place: Channing Nygaard, Tioga Public School, “Is there an effect that antibiotics have on your gut health?”

5th Place: Leland Dennis, Tioga Public School, “Moving Water with Static Electricity”

#### **Southeast Region**

1st Place: William Metz, Gackle-Street Public School, “How bullet-proof are different materials”

2nd Place: Sawyer Paulson, Hankinson Public School, “How Effectively Do Suppressors Dampen Sound From a Firearm”

3rd Place: Viola Sevland, Hankinson Public School, “The World's Natural Water Filter”

4th Place: Davider Sian, Montpelier Public School, “What Does Steel do for Reinforcement in Buildings?”

5th Place: Alaina Nenow, Gackle-Street Public School, “A "Woolly" Cool Way to Conserve Water”

## North Dakota State Science and Engineering Fair

### **Southwest Central Region**

1st Place: Eli Hatlestad, Shiloh Christian School, "Water Purification Using Centripetal Force"

2nd Place: Tesla Stevenson, Scranton Public School, "Microplastic's Effect on Plant Growth"

3rd Place: Kinley Jahner, Linton Public School, "Are Screens the Silent Memory Killer?"

4th Place: Kendyl Symanowski, Scranton Public School, "Types of Bit's Effect on Horse Behavior"

5th Place: Beckett Wolf, Dickinson Middle School, "What water sources are the cleanest for cattle consumption?"

### **Northeast Region**

1st Place: Shree Thakare, South Middle School, "How hydrogels could transform agriculture, medicine, and wastewater treatment"

2nd Place: Amrit Grehwal, Schroeder Middle School, "Which Light Color Will Make a Plant the Healthiest?"

3rd Place: Addy Thompson, Schroeder Middle School, "Drop it like its hot"

4th Place: Jovie Howard, Schroeder Middle School, "Bag to the Future"

5th Place: Brayden Johnson, Schroeder Middle School, "O Pill Collapse Now"

## AGRICULTURE/SOIL SCIENCE

### **Farmers Union Insurance - North Dakota**

Project Related to Agriculture

2 Winners: Senior Division: Monetary Award of \$50 And a Certificate

Madalyn Bohl & Cassy Hartman, Flasher High School, "Evaluation of Organic Acids for Reducing Soil Alkalinity"

Jocelyn Zingg, Flasher High School, "Role of Nitrogen and Phosphorus in Enhancing Sorghum Growth and Performance"

### **Farmers Union Insurance - North Dakota**

Project Related to Agriculture

2 Winners: Junior Division: Monetary Award of \$25 And a Certificate

Amrit Grehwal, Schroeder Middle School, "Which Light Color Will Make a Plant the Healthiest?"

Wyatt Woodbury, Flasher High School, "Insulation Nation"

## North Dakota State Science and Engineering Fair

### **North Dakota Farm Bureau**

Project Related to Agriculture

2 Winners: Senior Division: Monetary Award of \$25 And a Certificate

Harper Ferguson, Tioga Public School, “Biological Amendments-How They Impact Plant and Soil Health”

Paxton Mosset & Michael Vetter, Linton Public School, “Bright Growing”

### **North Dakota Farm Bureau**

Project Related to Agriculture

2 Winners: Junior Division: Monetary Award of \$25 And a Certificate

Alaina Nenow, Gackle-Streeter Public School, “A "Wooly" Cool Way to Conserve Water”

Austin Heupel, Ashley Public School, “Study of Deer”

## CHEMISTRY/BIOCHEMISTRY

### **Department of Chemistry**

Project in Chemistry

1 Winner: Junior Division: Monetary award of \$75 and a certificate

Timothy Ruse, Schroeder Middle School, “Alumi-Gone!”

### **Department of Chemistry**

Project in Chemistry

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Helen Wu, Davies High School, “Development of a ML-QSAR Model for Predicting Corrosion Inhibition Efficiency of Organic Compounds”

## North Dakota State Science and Engineering Fair

### **American Chemical Society-Red River Valley Section**

Project for best in Chemistry

1 Winner: Junior Division: \$100 Barnes and Noble Gift Card, A Periodic Table Scroll Pen, And a Certificate

Tessla Stevenson, Scranton Public School, "Microplastic's Effect on Plant Growth"

### **American Chemical Society-Red River Valley Section**

Project for best in Chemistry

1 Winner: Senior Division: \$100 Barnes and Noble Gift Card, A Periodic Table Scroll Pen, And a Certificate

Radheeka Weeraratne, Dickinson High School, "Biogenic Hydrogen as Renewable Energy: Using *R. palustris* TIE-1 to Inform Synthetic Microbial Design"

### **North Dakota State Science and Engineering Fair Association**

Project in Biochemistry category

1 Winner: Senior Division: Monetary Award of \$50 And a Certificate

Amaa Wijetunga, Red River High School, "Hydrodetectives 2.0"

### **North Dakota State Science and Engineering Fair Association**

Project in Biochemistry category

1 Winner: Junior Division: Monetary Award of \$50 And a Certificate

Amrit Grehwal, Schroeder Middle School, "Which Light Color Will Make a Plant the Healthiest?"

## EARTH/ATMOSPHERIC SCIENCES

### **Department of Atmospheric Sciences**

Project in Atmospheric Sciences

1 Winner: Junior or Senior Division: Monetary award of \$125 and a certificate

Bryce Fischer, Dickinson Middle School, "The Effect of Drag on Paper Airplanes"

## North Dakota State Science and Engineering Fair

### **Department of Geography**

Project in Earth Sciences

1 Winner: Junior Division: Monetary award of \$125 and a certificate

Aubree Volbrecht, Tioga Public School, "Stay Compost-ive"

### **Department of Geography**

Project in Atmospheric Science and Environmental Sciences

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Jocelyn Zingg, Flasher High School, "Role of Nitrogen and Phosphorus in Enhancing Sorghum Growth and Performance"

### **Department of Geology & Geological Engineering**

Project in Geology/ Geological Engineering

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Gavin Davidson, Tioga Public School, "What Soil Type is Better Against Erosion?"

### **Department of Geology & Geological Engineering**

Project in Geology/ Geological Engineering

1 Winner: Junior Division: Monetary award of \$125 and a certificate

Tessla Stevenson, Scranton Public School, "Microplastic's Effect on Plant Growth"

### **National Weather Service**

Project Related to Meteorology or water conservation

1 Winner: Junior or Senior Division: Certificate

Helen Wu, Davies High School, "Development of a ML-QSAR Model for Predicting Corrosion Inhibition Efficiency of Organic Compounds"

## North Dakota State Science and Engineering Fair

### **Association For Women Geoscientists**

Project Related to Geosciences

1 Winner (Must Be A Female Exhibitor): Junior or Senior Division: Certificate

Jocelyn Zingg, Flasher High School, "Role of Nitrogen and Phosphorus in Enhancing Sorghum Growth and Performance"

### **National Oceanic & Atmospheric Administration**

Project Related to Improved Understanding of the Earth's Processes

1 Winner: Junior Division: Certificate and a Medallion

Alea Vig, Lidgerwood Public School, "Cloudy with a Chance of Low Power"

### **NASA Earth System Science Award**

Project Related to Earth's Interconnected Systems

1 Winner: Junior or Senior Division: Certificate and invitation to a webinar with a NASA scientist

Layton Pribula, Red River High School, "Manipulating the World Using Acoustic Levitation"

## **ENERGY/POWER/ELECTRICITY**

### **Otter Tail Power Company**

Project Related to Energy or Electricity

3 Winners: Senior Division: Monetary Award of \$50 And a Certificate

Layton Pribula, Red River High School, "Manipulating the World Using Acoustic Levitation"

Jaxson Cowan, Williston Public School, "Quantum Batteries: The Future of Energy"

Jorden Meyer & CeeAnna Ruscheinsky, Flasher High School, "Evaluating th Thermal Performance of Moss Roofs In Calf Shelter Designs"

## North Dakota State Science and Engineering Fair

### **Otter Tail Power Company**

Project Related to Energy or Electricity

2 Winners: Junior Division: Monetary Award of \$50 And a Certificate

Jerol Gohrick, Tioga Public School, "Wind Turbine"

Noah Benton, Schroeder Middle School, "Glow Grow"

### **Chord Energy**

Project Related to Energy

1 Winner: Junior Division: Monetary Award of \$250 And a Certificate

Bryce Fischer, Dickinson Middle School, "The Effect of Drag on Paper Airplanes"

### **Chord Energy**

Project Related to Energy

1 Winner: Senior Division: Monetary Award of \$250 And a Certificate

Layton Pribula, Red River High School, "Manipulating the World Using Acoustic Levitation"

### **North American Coal**

Project in Energy, The Sustainable Use of Natural Resources or Environmental Stewardship.

2 Winners: Senior Division: Monetary Award of \$100 And a Certificate

Dwayne Declaro, Tioga Public School, "Electromagnetic Generator"

Radheeka Weeraratne, Dickinson High School, "Biogenic Hydrogen as Renewable Energy: Using *R. palustris* TIE-1 to Inform Synthetic Microbial Design"

### **North American Coal**

Project in Energy, The Sustainable Use of Natural Resources or Environmental Stewardship.

2 Winners: Junior Division: Monetary Award of \$100 And a Certificate

Wyatt Woodbury, Flasher High School, "Insulation Nation"

John Meyer & Charles McAvoy, Hankinson Public School, "Ark Reactor"

## North Dakota State Science and Engineering Fair

### ENGINEERING

#### **Department of Civil Engineering**

Project in Civil Engineering

1 Winner: Junior Division: Monetary award of \$50 and a certificate

Davinder Sian, Montpelier Public School, "What Does Steel Do For Reinforcement in Buildings?"

#### **Department of Civil Engineering**

Project in Civil Engineering

1 Winner: Senior Division: Monetary award of \$50 and a certificate

Che Yu, Red River High School, "Real-Time Tracking and Location of Persons Through an AI Assisted Camera Network"

#### **Department of Mechanical Engineering**

Project in Mechanical Engineering

1 Winner: Junior Division: Monetary award of \$75 and a certificate

Carson Placek, Tioga Public School, "Air Matrix"

#### **Department of Mechanical Engineering**

Project in Mechanical Engineering

1 Winner: Senior Division: Monetary award of \$75 and a certificate

Layton Pribula, Red River High School, "Manipulating the World Using Acoustic Levitation"

#### **Department of Chemical Engineering**

Project in Chemical Engineering

1 Winner: Junior Division: Monetary award of \$75 and a certificate

Emma Flynn, Schroeder Middle School, "To Heat or to Cool, That is the Question"

## North Dakota State Science and Engineering Fair

### **Department of Chemical Engineering**

Project in Chemical Engineering

1 Winner: Senior Division: Monetary award of \$75 and a certificate

Sev Johann Caldon, Davies High School, "Turning Waste Styrofoam into Water-Repellent Coatings"

### **Dr. Richard Schultz Award - Department of Electrical Engineering**

Project in Electrical Engineering

1 Winner: Junior Division: Monetary award of \$125 and a certificate

Emma Flynn, Schroeder Middle School, "To Heat or to Cool, That is the Question"

### **Dr. Richard Schultz Award - Department of Electrical Engineering**

Project in Electrical Engineering

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Jaxson Cowan, Williston Public School, "Quantum Batteries: The Future of Energy"

### **Department of Petroleum Engineering**

Project in Energy/Petroleum Engineering

1 Winner: Senior Division: Monetary award of \$75 and a certificate

Sev Johann Caldon, Davies High School, "Turning Waste Styrofoam into Water-Repellent Coatings"

### **College of Engineering and Mines**

Project in Engineering

1 Winner: Junior Division: Monetary award of \$75 and a certificate

John Meyer & Charles McAvoy, Hankinson Public School, "Ark Reactor"

## North Dakota State Science and Engineering Fair

### **College of Engineering and Mines**

Project in Engineering

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Aubrey Isakson, Kidder County, “Sustainable Agriculture Enabled by Biodegradable Hydrogels for Improved Water and Nutrient Management”

### **College of Engineering and Mines**

Project in Engineering (Female Winner)

1 Winner: Senior Division: Monetary award of \$125 and a \$500 Scholarship

Ava Hauck, Dickinson High School, “Embedded Vision Hardware for Medical Screening in Low-Resource Settings”

### **Luther Family Ford**

Project related to engineering mobility, automotive engineering or fuel improvements.

2 Winners: Senior Division: Monetary award of \$75 and a certificate

Che Yu, Red River High School, “Real-Time Tracking and Location of Persons Through an AI Assisted Camera Network”

Radheeka Weeraratne, Dickinson High School, “Biogenic Hydrogen as Renewable Energy: Using *R. palustris* TIE-1 to Inform Synthetic Microbial Design”

### **Luther Family Ford**

Project related to engineering mobility, automotive engineering or fuel improvements.

2 Winners: Senior Division: Monetary award of \$50 and a certificate

Dwayne Declaro, Tioga Public School, “Electromagnetic Generator”

Jaxson Cowan, Williston Public School, “Quantum Batteries: The Future of Energy”

## North Dakota State Science and Engineering Fair

### **Luther Family Ford**

Project related to engineering mobility, automotive engineering or fuel improvements.

2 Winners: Junior Division: Monetary award of \$75 and a certificate

Carson Placek, Tioga Public School, "Air Matrix"

John Meyer & Charles McAvoy, Hankinson Public School, "Ark Reactor"

### **Luther Family Ford**

Project related to engineering mobility, automotive engineering or fuel improvements.

2 Winners: Junior Division: Monetary award of \$50 and a certificate

Bryce Fischer, Dickinson Middle School, "The Effect of Drag on Paper Airplanes"

Azreal Cichos, Montpelier Public School, "Animatronic Head Movement"

### **Opp Construction**

Project in Construction Innovation or Construction Safety

2 Winners: Senior Division: Monetary award of \$100 and a certificate

Sev Johann Caldana, Davies High School, "Turning Waste Styrofoam into Water-Repellent Coatings"

Layton Pribula, Red River High School, "Manipulating the World Using Acoustic Levitation"

### **Opp Construction**

Project in Construction Innovation or Construction Safety

2 Winners: Junior Division: Monetary award of \$50 and a certificate

Jovie Howard, Schroeder Middle School, "Bag To the Future"

Davinder Sian, Montpelier Public School, "What Does Steel Do For Reinforcements in Buildings?"

## North Dakota State Science and Engineering Fair

### ENVIRONMENTAL SCIENCES

#### **College of Engineering and Mines**

Project in Energy/Environmental Science

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Helen Wu, Davies High School, “Development of a ML-QSAR Model for Predicting Corrosion Inhibition Efficiency of Organic Compounds”

#### **Ricoh Corporation**

Project Related to Environmentally Friendly Businesses

1 Winner: Senior Division: Certificate

Sev Johann Caldon, Davies High School, “Turning Waste Styrofoam into Water-Repellent Coatings”

### HUMAN NUTRITION/FOOD SCIENCE

#### **North Dakota State Science and Engineering Fair Association**

Project in Human Nutrition & Food Science

1 Winner: Senior Division: Monetary Award of \$50 And a Certificate

Ava Siemieniowski, Lidgerwood Public School, “Sweet Choices, Gassy Consequences”

#### **North Dakota State Science and Engineering Fair Association**

Project in Human Nutrition & Food Science

1 Winner: Junior Division: Monetary Award of \$50 And a Certificate

Ryker Stroehl, Lidgerwood Public School, “Preservatives on Your Plate”

## North Dakota State Science and Engineering Fair

### LIFE SCIENCES (ANIMAL & PLANT)

#### **North Dakota State Science and Engineering Fair Association**

Project in Botany

1 Winner: Senior Division: Monetary Award of \$50 And a Certificate

Harper Ferguson Tioga Public School      Biological Amendments-How They Impact Plant and Soil Health

#### **North Dakota State Science and Engineering Fair Association**

Project in Botany

1 Winner: Junior Division: Monetary Award of \$50 And a Certificate

McLaen Erickson, Schroeder Middle School, "Water Stalker"

#### **Department of Biomedical Sciences**

Project in Area of Life Sciences (Molecular Biology Emphasis)

2 Winners: Junior Division: Monetary award of \$75 each and a certificate

Amaa Wijetunga, Red River High School, "Hydrodetectives 2.0"

Aubrey Isakson, Kidder County, "Sustainable Agriculture Enabled by Biodegradable Hydrogels for Improved Water and Nutrient Management"

#### **Department of Biomedical Sciences**

Project in Area of Life Sciences (Molecular Biology Emphasis)

2 Winners: Senior Division: Monetary award of \$75 each and a certificate

Viola Sevland, Hankinson Public School, "The World's Natural Water Filters"

Jeremiah Gessey, Flasher Public School, "Epigenetic Memory in Unicellular Vs. Multicellular Organisms"

## North Dakota State Science and Engineering Fair

### **Department of Biology**

Project in Biology

1 Winner: Junior Division: Monetary award of \$75 and a certificate

Simon Jacobson, Glen Ullin Public School, "Does Apple Cider Vinegar Enhance Remanent Digestion"

### **Department of Biology**

Project in Biology

1 Winner: Senior Division: Monetary award of \$125, a \$500 UND Biology scholarship and a certificate

Karly Rivinis, Gackle-Streeter Public School, "Madigan Squeeze"

### **North Dakota Veterinary Medical Association**

Project Related to Veterinary Medicine

1 Winner: Senior Division: Monetary Award of \$300 And a Certificate

Karly Rivinis, Gackle-Streeter Public School, "Madigan Squeeze"

### **North Dakota Veterinary Medical Association**

Project Related to Veterinary Medicine

1 Winner: Senior Division: Monetary Award of \$225 And a Certificate

Abigail Ferguson, Tioga Public School, "FerAppeas Effects on Cattle During Stressful Times"

### **North Dakota Veterinary Medical Association**

Project Related to Veterinary Medicine

1 Winner: Junior Division: Monetary Award of \$75 And a Certificate

Shree Thakare, South Middle School, "How Hydrogels could transform agriculture, medicine and wastewater treatment"

## North Dakota State Science and Engineering Fair

### **Society for In Vitro Biology**

Project in the Area of Tissue Culture

1 Winner: 11th Grader Division: Certificate

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

### **The Hinsz and Weigum Families**

Project for Research on Plants

2 Winners: Junior Division: Monetary Award of \$50 And a Certificate

Easton Rehak, Tioga Public School, "Is There A Substitute For Water in Plant Growth?"

Viola Sevland, Hankinson Public School, "The World's Natural Water Filters"

### **The Hinsz and Weigum Families**

Project for Research on Plants

1 Winner: Senior Division: Monetary Award of \$125 And a Certificate

Jocelyn Zingg, Flasher High School, "Role of Nitrogen and Phosphorus in Enhancing Sorghum Growth and Performance"

### **The Hinsz and Weigum Families**

Project for Research on Plants

1 Winner: Senior Division: Monetary Award of \$100 And a Certificate

Hannah Tollerfsrud, Lidgerwood Public School, "Glow & Grow"

### **The Hinsz and Weigum Families**

Project for Research on Ecology

2 Winners: Junior Division: Monetary Award of \$50 And a Certificate

Jovie Howard, Schroeder Middle School, "Bag To the Future"

Beckett Wolf, Dickinson Middle School, "What water sources are the cleanest for cattle consumption?"

## North Dakota State Science and Engineering Fair

### **The Hinsz and Weigum Families**

Project for Research on Ecology

1 Winner: Senior Division: Monetary Award of \$125 And a Certificate

Madalyn Bohl & Cassy Hartman, Flasher High School, "Evaluation of Organic Acids for Reducing Soil Alkalinity"

### **The Hinsz and Weigum Families**

Project for Research on Ecology

1 Winner: Senior Division: Monetary Award of \$100 And a Certificate

Radheeka Weeraratne, Dickinson High School, "Biogenic Hydrogen as Renewable Energy: Using *R. palustris* TIE-1 to Inform Synthetic Microbial Design"

## MATHEMATICS/COMPUTER SCIENCE

### **Microsoft**

Project in Computer Science (Emphasis in Artificial Intelligence)

1 Winner: Junior or Senior Division: Monetary award of \$125 and a certificate

Katelyn Hur, Red River High School, "AD-Stage-Net: AI for Alzheimer's MRI Classification"

### **Department of Mathematics**

Project in Mathematics

1 Winner: Junior Division: Monetary award of \$75 and a certificate

Dena Goehring, Ashley Public School, "How Does Music Affect Your Heart Rate?"

### **Department of Mathematics**

Project in Mathematics

1 Winner: Senior Division: Monetary award of \$125 and a \$500 UND Mathematics scholarship, and a certificate

Tru Sharp, Flasher High School, "Playing Music"

## North Dakota State Science and Engineering Fair

### **School of Electrical Engineering & Computer Science**

Project in Computer Science

1 Winner: Junior Division: Monetary award of \$100 and a certificate

Bryce Fischer, Dickinson Middle School, "The Effect of Drag on Paper Airplanes"

### **School of Electrical Engineering & Computer Science**

Project in Computer Science

1 Winner: Senior Division: Monetary award of \$100 and a certificate

Sonakshi Singhal, Red River High School, "Environmental Microplastics and Liver Damage: Detection and Computational Modeling"

### **Yale Science And Engineering Association**

Project in Areas of Computer Science

1 Winner: 11<sup>th</sup> grade: Certificate And Medallion

Che Yu, Red River High School, "Real-Time Tracking and Location of Persons Through an AI Assisted Camera Network"

## MEDICINE/HEALTH

### **ND IDeA Network of Biomedical Research Excellence**

Project in Medical or Health Sciences

1 Winner: Junior Division: Monetary award of \$75 and a certificate

Kinley Jahner, Linton Public School, "Are Screens the Silent Memory Killer?"

### **ND IDeA Network of Biomedical Research Excellence**

Project in Medical or Health Sciences

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

## North Dakota State Science and Engineering Fair

### **School of Medicine & Health Sciences**

Project in Medical or Health Sciences

1 Winner: Senior Division: Monetary award of \$300 and a certificate

Amaa Wijetunga, Red River High School, "Hydrodetectives 2.0"

### **School of Medicine & Health Sciences**

Project in Medical or Health Sciences

1 Winner: Senior Division: Monetary award of \$150 and a certificate

Karly Rivinis, Gackle-Streeter Public School, "Madigan Squeeze"

### **School of Medicine & Health Sciences**

Project in Medical or Health Sciences

1 Winner: Junior Division: Monetary award of \$300 and a certificate

Sawyer Paulson, Hankinson Public School, "How Effectively Do Suppressors Dampen Sound from a Firearm"

### **Department of Biomedical Engineering**

Project in Biomedical engineering

1 Winner: Senior Division: Monetary award of \$150

Katelyn Hur, Red River High School, "AD-Stage-Net: AI for Alzheimer's MRI Classification"

### **Department of Biomedical Engineering**

Project in Biomedical engineering

1 Winner: Junior Division: Monetary award of \$100

Lydia Chambers, Capstone Classical Academy, "Simulating Limited Mobility"

## North Dakota State Science and Engineering Fair

### **Department of Biomedical Sciences**

Project in Pharmacology/Immunology

1 Winner: Junior Division: Monetary award of \$125 and a certificate

Roselynn Frank, Flasher Public School, "Just Breathe"

### **Department of Biomedical Sciences**

Project in Pharmacology/Immunology

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Kinley Isbell, Flasher Public School, "The Impact of Environmental Storage Conditions on the Chemical Stability of Pour-On Ivermectin"

### **Department of Biomedical Sciences**

Project in Medical or Health Sciences

1 Winner: Senior Division: Monetary award of \$125 and a certificate

Katelyn Hur, Red River High School, "AD-Stage-Net: AI for Alzheimer's MRI Classification"

### **Department of Biomedical Sciences**

Project in Medical or Health Sciences

1 Winner: Junior Division: Monetary award of \$125 and a certificate

Shree Thakare, South Middle School, "How Hydrogels could transform agriculture, medicine and wastewater treatment"

### **North Dakota Academy of Family Physicians**

Project Related to Medicine

1 Winner: Senior Division: Monetary Award of \$50 And a Certificate

Noah Welch, Hankinson Public School, "How Does Diabetes and Other Related Health Conditions Effect Mental Health"

## North Dakota State Science and Engineering Fair

### **American Society for Clinical Laboratory Science - North Dakota**

Project Related to Laboratory Medicine

3 Winners: Senior Division: Monetary Award of \$50 And a Certificate

Abigail Ferguson, Tioga Public School, "FerAppeas Effects on Cattle During Stressful Times"

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

Nolan Sutherland, Lisbon High School, "A Comparison of Bacterial Growth Between Synthetic and Natural Loofahs"

### **American Society for Clinical Laboratory Science - North Dakota**

Project Related to Laboratory Medicine

3 Winners: Junior Division: Monetary Award of \$50 And a Certificate

Beckett Wolf, Dickinson Middle School, "What water sources are the cleanest for cattle consumption?"

Simon Jacobson, Glen Ullin Public School, "Does Apple Cider Vinegar Enhance Remanent Digestion"

Ryker Stroehl, Lidgerwood Public School, "Preservtives on Your Plate"

### **North Dakota Pharmacists Association**

Project in Field of Pharmacology

1 Winner: Junior Division: Monetary Award of \$75 And a Certificate

Brayden Johnson, Schroeder Middle School, "O Pill Collapse Now"

### **North Dakota Pharmacists Association**

Project in Field of Pharmacology

1 Winner: Senior Division: Monetary Award of \$100 And a Certificate

Amaa Wijetunga, Red River High School, "Hydrodetectives 2.0"

### **Regeneron Biomedical Science Award**

Project Related to Biomedical Science and Research

1 Winner: Senior Division: Monetary Award of \$375 And a Certificate

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

## North Dakota State Science and Engineering Fair

### MICROBIOLOGY

#### Department of Biomedical Sciences

Project in Microbiology/Infectious Disease

2 Winners: Senior Division: Monetary award of \$125 and a certificate

Cheryl Hayes, Tioga Public School, “The Impact of UV Radiation on Bacterial Reduction In Water”

Radheeka Weeraratne, Dickinson High School, “Biogenic Hydrogen as Renewable Energy: Using *R. palustris* TIE-1 to Inform Synthetic Microbial Design”

#### Department of Biomedical Sciences

Project in Microbiology/Infectious Disease

1 Winners: Junior Division: Monetary award of \$75 and a certificate

Beckett Wolf, Dickinson Middle School, “What water sources are the cleanest for cattle consumption?”

### MILITARY

#### Air Force

Project That Has Applications Useful to Air Force

4 Winners: Junior or Senior Division: Swag bag and a Certificate

Che Yu, Red River High School, “Real-Time Tracking and Location of Persons Through an AI Assisted Camera Network”

Timothy Ruse, Schroeder Middle School, “Alumi-Gone!”

Sev Johann Caldon, Davies High School, “Turning Waste Styrofoam into Water-Repellent Coatings”

Lydia Chambers, Capstone Classical Academy, “Simulating Limited Mobility”

## North Dakota State Science and Engineering Fair

### **Navy**

Project (All Categories Considered)

1 Winner: Junior or Senior Division: A Medallion And Certificate

William Metz, Gackle-Streeter Public School, "How Bullet-proof are Different Materials"

### **Marines**

Project (All Categories Considered)

1 Winner: Junior or Senior Division: Certificate and award package

Helen Wu, Davies High School, "Development of a ML-QSAR Model for Predicting Corrosion Inhibition Efficiency of Organic Compounds"

## PHYSICS/ASTRONOMY

### **Department of Physics & Astrophysics**

Project for Best in Physics

1 winner: Junior Division: Monetary award of \$150 and a certificate

Davinder Sian, Montpelier Public School, "What Does Steel Do For Reinforcement in Buildings?"

### **Department of Physics & Astrophysics**

Project in Physics

1 Winner: Senior Division: Monetary award of \$200, a \$1000 Physics scholarship, and a certificate

Dwayne Declaro, Tioga Public School, "Electromagnetic Generator"

## North Dakota State Science and Engineering Fair

### **United States Metric Association**

Project Using Metric System for Measurements

3 Winners: Junior Division: Certificate

Eli Hatlestad, Shiloh Christian, "Water Purification Using Centripetal Force"

Josie Bohl & Amelia LaDuke, Flasher High School, "Analysis of Volleyball Serves"

Emma Flynn, Schroeder Middle School, "To Heat or to Cool, That is the Question"

## SOCIAL/BEHAVIORAL SCIENCES

### **Department of Psychology**

Project in Psychology or Behavioral Science

2 Winners: Junior Division: Monetary award of \$125 and a certificate

Kinley Adams, Schroeder Middle School, "POTS"

Kinley Jahner, Linton Public School, "Are Screens the Silent Memory Killer?"

### **Department of Psychology**

Project in Psychology or Behavioral Science

2 winners: Senior Division: Monetary award of \$125 and a certificate

Preslee Look & Aubrey Roerich, Linton Public School, "Scrolling Stress"

Skylar Flatt-Hardy, Flasher High School, "Evaluating Long-Term Knowledge Retention of the Beef Commission and Beef Checkoff Program Among Students"

### **Virginia George Inheritance Fund**

Project in Social or Behavioral Science

1 Winner: Senior Division: Monetary Award of \$125

Noah Welch, Hankinson Public School, "How Does Diabetes and Other Related Health Conditions Effect Mental Health"

## North Dakota State Science and Engineering Fair

### **Virginia George Inheritance Fund**

Project in Social or Behavioral Science

1 Winner: Junior Division: Monetary Award of \$100

Alyson Pewe, Valley/Edinburg, "A.I. vs. Humans: What's the Difference?"

### **American Psychological Association**

Project Related to Psychology

1 Winner: Junior or Senior Division: Certificate

Lydia Chambers, Capstone Classical Academy, "Simulating Limited Mobility"

## SWEEPSTAKES

### **Citadel Securities Innovation Prize**

Project to a young inventor that exemplifies ingenuity and innovation through their project idea, goals, and or/design, thinking creatively about how to solve problems.

1 Winner: Junior or Senior Division: \$100 voucher And a Certificate

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

### **The Greenhouse**

Project that demonstrates an entrepreneurial idea or innovative solution to a real world problem

1 Winner: Junior or Senior Division: Monetary Award of \$100

Shree Thakare, South Middle School, "How Hydrogels could transform agriculture, medicine and wastewater treatment"

### **Lemelson Foundation Early Intervention Prize**

Project a young inventor creating a promising solution to a real-world problem

1 Winner: Junior Division: \$100 voucher and certificate

Eli Hatlestad, Shiloh Christian, "Water Purification Using Centripetal Force"

## North Dakota State Science and Engineering Fair

### **ISEF Alumni**

Project as Determined by ISEF Alumni

1 Winner: Junior or Senior Division: Monetary Award of \$200 And a Certificate

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

### **ISEF Alumni**

Project as Determined by ISEF Alumni

1 Winner: Junior or Senior Division: Monetary Award of \$100 And a Certificate

Kinley Isbell, Flasher High School, "The Impact of Environmental Storage Conditions on the Chemical Stability of Pour-On Ivermectin"

### **The Hinsz and Weigum Families**

Project for Effective Data Collection

1 Winner: Junior Division: Monetary Award of \$50 And a Certificate

Emma Flynn, Schroeder Middle School, "To Heat or to Cool, That is the Question"

### **Hinsz and Weigum Families**

Project for Effective Data Collection

1 Winner: Junior Division: Monetary Award of \$50 And a Certificate

Lydia Chambers, Capstone Classical Academy, "Simulating Limited Mobility"

### **The Hinsz and Weigum Families**

Project for Effective Data Collection

1 Winner: Senior Division: Monetary Award of \$125 And a Certificate

Noah Welch, Hankinson High School, "How Does Diabetes and Other Related Health Conditions Effect Mental Health"

## North Dakota State Science and Engineering Fair

### **The Hinsz and Weigum Families**

Project for Effective Data Collection

1 Winner: Senior Division: Monetary Award of \$100 And a Certificate

Skylar Flatt-Hardy, Flasher High School, "Evaluating Long-Term Knowledge Retention of the Beef Commission and Beef Checkoff Program Among Students"

### **The Hinsz and Weigum Families**

Project for Effective Data Analysis

1 Winner: Senior Division: Monetary Award of \$125 And a Certificate

Ava Hauck, Dickinson High School, "Embedded Vision Hardware for Medical Screening in Low-Resource Settings"

### **The Hinsz and Weigum Families**

Project for Effective Data Analysis

1 Winner: Junior Division: Monetary Award of \$50 And a Certificate

Shree Thakare, South Middle School, "How Hydrogels could transform agriculture, medicine and wastewater treatment"

### **Superior Insurance**

Project for Best Presentation (teaching/ explaining) of a project

1 Winner: Senior Division: Monetary Award of \$100

Madalyn Bohl & Cassy Hartman, Flasher High School, "Evaluation of Organic Acids for Reducing Soil Alkalinity"

### **Superior Insurance**

Project for Best Presentation (teaching/ explaining) of a project

1 Winner: Junior Division: Monetary Award of \$100

Tessla Stevenson, Scranton Public School, "Microplastic's Effect on Plant Growth"

## North Dakota State Science and Engineering Fair

### WATER QUALITY

#### **American Water Works Association**

Project Related to Drinking Water Quality

1 Winner: Junior or Senior Division: Monetary Award of \$75 And a Certificate

Beckett Wolf, Dickinson Middle School, "What water sources are the cleanest for cattle consumption?"

#### **North Dakota Water Environment Association**

Project Related to Water Quality

1 Winner: Senior Division: Monetary Award of \$75 And a Certificate

Hiroto Attigah, Tioga Public School, "How to turn river water into drinking water"

#### **North Dakota Water Environment Association**

Project Related to Water Quality

1 Winner: Junior Division: Monetary Award of \$75 And a Certificate

Shree Thakare, South Middle School, "How Hydrogels could transform agriculture, medicine and wastewater treatment"

#### **Water Environment Federation**

Project Related to Water Quality, Water Conditions, or water resource management

1 Winner: Junior or Senior Division: Certificate

Eli Hatlestad, Shiloh Christian, "Water Purification Using Centripetal Force"