

2012 Final Awards – ND State Science and Engineering Fair

Aerospace Science

American Society of Photogrammetry and Remote Sensing
Best Project in the Field of Geospatial or Earth Science
1 Winner : Junior Division : Received a cash award of \$100 and a certificate
Kaitlyn Binstock, Wing School District , "Plants Galore"

American Society of Photogrammetry and Remote Sensing
Best Project in the Field of Geospatial or Earth Science
1 Winner : Senior Division : Received a cash award of \$100 and a certificate
Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Agriculture

UND Graduate School
Project Related to Agriculture
1 Winner : Senior Division : Received a cash award of \$100 and a certificate
Tanner Coppin, Hankinson School District , "An Inquisition of Natural and Commercial Insecticides on Wheat"

UND Graduate School
Project Related to Agriculture
1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Carter Mauch, Hankinson School District , "The Pesticidal Properties of the Goosefoot Family"

North Dakota Soil Conservation District/Auxiliary
Project Related to Soil Conservation
1 Winner : Senior Division : Received a \$75 Cash Award and a Certificate
Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

North Dakota Soil Conservation District/Auxiliary
Project Related to Soil Conservation
1 Winner : Senior Division : Received a \$25 Cash Award and a Certificate
Taylor Ketterling, Wishek School District , "Does Tissue Sampling Increase Profit II"

North Dakota Soil Conservation District/Auxiliary
Project Related to Soil Conservation
1 Winner : Junior Division : Received a \$75 Cash Award and a Certificate
Mya Steinwehr, Hankinson School District , "The Production of a Natural Fungicide Derived From Flowers"

North Dakota Soil Conservation District/Auxiliary
Project Related to Soil Conservation
1 Winner : Junior Division : Received a \$25 Cash Award and a Certificate
Paige Buck, Hankinson School District , "Effects of Fishmeal on the Growth of Gallus domesticus"

Farmers Union Insurance - North Dakota
Project Related to Agriculture
2 Winners : Senior Division : Received a Cash Award Of \$50 and a Certificate
Grady Mauch, Hankinson School District , "The Effects of the Aster Family on Sugar Beet Production"
Tanner Coppin, Hankinson School District , "An Inquisition of Natural and Commercial Insecticides on Wheat"

Farmers Union Insurance - North Dakota
Project Related to Agriculture
2 Winners : Junior Division : Received a Cash Award Of \$25 and a Certificate
Mya Steinwehr, Hankinson School District , "The Production of a Natural Fungicide Derived From Flowers"
Betsy Asp, Hankinson School District , "The Inhibitory Properties of Herbs on Pathogenic Bacteria"

Arts and Sciences

Association of North Dakota Geographers
Project in the Field of Social Science
1 Winner : Senior Division : Received a cash award of \$125 and a certificate
MaKayla Koski, Wing School District , "If You're Happy and You Know It..."

UND Department of Geography
Project in the Geography Category
1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Trevor Lausch, Griggs County Central School District , "Comparing Soil Samples"

UND Department of Geography
Project in the Geography Category
1 Winner : Senior Division : Received a cash award of \$50 and a \$250 scholarship and a certificate
Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

UND Department of Sociology
Project in the Social Science Category
1 Winner : Senior Division : Received a cash award of \$150 and a certificate
Mariah Kinneberg, Dakota Prairie School District , "Composer's Second Signature"

UND Department of Sociology
Project in the Social Science Category
1 Winner : Junior Division : Received a cash award of \$150 and a certificate
Mikaela Kujanson, Oak Grove School District , "Distracted Driving"

Biochemistry

North Dakota State Science and Engineering Fair Association
Project in Field of Biochemistry
1 Winner : Senior Division : Received a Cash Award of \$50 and a Certificate
Abbie Sondeland, Valley/Edinburg School District , "The Tell-Tale Heart of Daphnia"

North Dakota State Science and Engineering Fair Association

Project in Field of Biochemistry

1 Winner : Senior Division : Received a Cash Award of \$25 and a Certificate

Tanner Coppin, Hankinson School District , "An Inquisition of Natural and Commercial Insecticides on Wheat"

North Dakota State Science and Engineering Fair Association

Project in Field of Biochemistry

1 Winner : Junior Division : Received a Cash Award of \$50 and a Certificate

Betsy Asp, Hankinson School District , "The Inhibitory Properties of Herbs on Pathogenic Bacteria"

North Dakota State Science and Engineering Fair Association

Project in Field of Biochemistry

1 Winner : Junior Division : Received a Cash Award of \$25 and a Certificate

Paige Buck, Hankinson School District , "Effects of Fishmeal on the Growth of Gallus domesticus"

Biology, Life Science, Animal Science, Plant Science

UND Department of Biochemistry and Molecular Biology

Project in the Area of Life Sciences

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

Betsy Asp, Hankinson School District , "The Inhibitory Properties of Herbs on Pathogenic Bacteria"

Paige Buck, Hankinson School District , "Effects of Fishmeal on the Growth of Gallus domesticus"

UND Department of Biochemistry and Molecular Biology

Project in the Area of Life Sciences

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

Kristian Myrdal, Valley/Edinburg School District , "The Effect of Dust on the Development Brassica rapa"

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

UND Department of Biology

Project in the Biology Category

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

Carter Mauch, Hankinson School District , "The Pesticidal Properties of the Goosefoot Family"

UND Department of Biology

Project in the Biology Category

1 Winner : Senior Division : Received a cash award of \$100 and a \$300 scholarship and a certificate

Tanner Coppin, Hankinson School District , "An Inquisition of Natural and Commercial Insecticides on Wheat"

Business Administration

UND Department of Technology

Project in Technology Category

1 Winner : Junior or Senior Division : Received a cash award of \$50 and a certificate

Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

Chemistry

UND Department of Chemistry

Project in the Chemistry Category

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

Alyssa Mutschelknaus, Grant County School District , "Fire and Air"

UND Department of Chemistry

Project in the Chemistry Category

1 Winner : Senior Division : Received a cash award of \$100 and a \$300 scholarship and a certificate

Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

Iota Sigma Pi (Honor Society For Women Chemists)

Project in the Chemistry Category

1 Winner (must be a female exhibitor) : Junior or Senior Division : Received a cash award of \$50 and a certificate

Shayna Dvorak, Dickinson School District , "The Comparative Analysis of the Isolation of Cinnamaldehyde Through the Methods of Solvent Extraction and Steam Distillation "

American Association of Clinical Chemists

Project in Clinical Chemistry

1 Winner : Senior Division : Received a Cash Award Of \$100 and a Certificate

Kelsey Gaukler, Hankinson School District , "The Chemical and Microbial Analysis of Well Water"

American Chemical Society - Red River Valley Section

Project in Field of Chemistry

1 Winner : Junior or Senior Division : Received a \$100 Barnes and Noble Gift Card a Certificate and a 5-In-1 Pen

Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

Dentistry

North Dakota Dental Association

Project Related to Dentistry

2 Winners : Junior Division : Received a Cash Award Of \$50 and a Certificate

Brennen Boll, Hankinson School District , "A Comparative Study of Commercial and Herbal Toothpaste"

Emilee Falcon, Trenton School District , "Retain The Insane"

North Dakota Dental Association

Project Related to Dentistry

2 Winners : Senior Division : Received a Cash Award Of \$50 and a Certificate

Autumn Hove, Trenton School District , "Bacteria Busters"

Brooklyn Hurley, Trenton School District , "The Inhibitory Effects Of Native American Plants"

Energy, Power, Electricity

Ottertail Power Company

Project Related to Energy or Electricity

3 Winners : Senior Division : Received a Cash Award Of \$50 and a Certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Rylan Setness, Park River School District , "Ethanol Efficiency"

Jasmine Kreft, Trinity Christian School District , "Unlocking The Potential"

Ottertail Power Company

Project Related to Energy or Electricity

2 Winners : Junior Division : Received a Cash Award Of \$50 and a Certificate

Eric Spilman, Mandan School District , "Study of Electric to Light Methods"

Evan Welsh, Schroeder, GF School District , "The Effects of Blocking your Computer's Air Vent's Air Flow"

Xcel Energy

Project Related to Energy or Electricity

3 Winners : Junior Division : Received a Cash Award Of \$25 and a Certificate

Eric Spilman, Mandan School District , "Study of Electric to Light Methods"

Evan Welsh, Schroeder, GF School District , "The Effects of Blocking your Computer's Air Vent's Air Flow"

Sean Loken, Wishek School District , "GBSE Technology"

Xcel Energy

Project Related to Energy or Electricity

3 Winners : Senior Division : Received a Cash Award Of \$25 and a Certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

Mary Skjervheim, Adams/Edmore School District , "Wind Turbines"

MDU Resources Group, Inc.

Project Related to Energy or Electricity

3 Winners : Senior Division : Received a \$25 Cash Award and a Certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Tyler Toepke-Floyd, Wishek School District , "It's All in the Fuel"

Alexander Spilman, Mandan School District , "Sampling Microwave Oven Populations"

MDU Resources Group, Inc.

Project Related to Energy or Electricity

3 Winners : Junior Division : Received a \$25 Cash Award and a Certificate

Eric Spilman, Mandan School District , "Study of Electric to Light Methods"

Evan Welsh, Schroeder, GF School District , "The Effects of Blocking your Computer's Air Vent's Air Flow"

Aaron Bechtle, Wishek School District , "Magnet Power"

Engineering

UND Department of Chemical Engineering

Project in the Chemical Engineering Category

1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Mara Roteliuk, Sawyer School District , "Crystal Creations"

UND Department of Chemical Engineering

Project in the Chemical Engineering Category

1 Winner : Senior Division : Received a cash award of \$50 and a certificate
Kellie Tougas, Strasburg School District , "Environmental Effects on the Detection of Lead at Bullet Impact Sites"

UND Department of Civil Engineering

Project in the Civil Engineering Category

1 Winner : Junior Division : Received a cash award of \$25 and a certificate
Dale Spilman, Mandan School District , "Comparison of Glued Bridge Joints"

UND Department of Civil Engineering

Project in the Civil Engineering Category

1 Winner : Senior Division : Received a cash award of \$25 and a certificate
Sam Ravnaas, Mandan School District , "Thorium Reactors: A "Theoretical" Solution to Our Economical Energy Problems"

UND Department of Electrical Engineering

Project in the Electrical Engineering Category

2 Winners : Junior Division : Received a cash award of \$50 and a certificate
Eric Spilman, Mandan School District , "Study of Electric to Light Methods"
Sean Loken, Wishek School District , "GBSE Technology"

UND Department of Electrical Engineering

Project in the Electrical Engineering Category

4 Winners : Senior Division : Received a cash award of \$100 and a certificate
Alexander Spilman, Mandan School District , "Sampling Microwave Oven Populations"
Trent Mattern, Strasburg School District , "Extending Wifi"
Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"
Mary Skjervheim, Adams/Edmore School District , "Wind Turbines"

UND Department of Mechanical Engineering

Project in the Mechanical Engineering Category

1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Zach Reinholdt, Trinity Christian School District , "Battle Of The Woods"

UND Department of Mechanical Engineering

Project in the Mechanical Engineering Category

1 Winner : Senior Division : Received a cash award of \$50 and a certificate
Jim Barrett, Kidder Co. Tappen School District , "Pressure Extinguisher"

ASM Materials Education Foundation

Project in Materials Engineering

1 Winner : Junior or Senior Division : Received a Medallion and a Certificate

Hunter Pinke, Wishek School District , "How Insulation Traps and Holds Heat"

National Society of Professional Engineers

Project in Engineering Category

1 Winner : Junior or Senior Division : Received a Certificate a Lapel Pin

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Society of Automotive Engineers

Project in Mobility Engineering

1 Winner : Junior Division : Received a Cash Award Of \$100 a Framed Certificate

Nathan Steffan, Lakota School District , "Gelled Up?"

Society of Automotive Engineers

Project in Mobility Engineering

1 Winner : Senior Division : Received a Cash Award Of \$100 a Framed Certificate

Lisa Yang, Dickinson School District , "Effects of Spin Stabilization on the Altitude of Model Rockets"

Environment

UND School of Engineering & Mines

Project in Energy or Environmental Science Categories

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

Jasmine Kreft, Trinity Christian School District , "Unlocking The Potential"

UND School of Engineering & Mines

Project in Energy or Environmental Science Categories

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

Seth Jansen, Montpelier School District , "Whole Lot of Shakin' Going On"

Ricoh Corporation

Project Related to Environmentally Friendly Businesses

1 Winner : Senior Division : Received a Certificate

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

Coalition for Conservation & Environmental Education

Outstanding Environmental Project

1 Winner : Senior Division : Received a \$50 Cash Award a Large Purple Rosette Ribbon and a Certificate

Tanner Coppin, Hankinson School District , "An Inquisition of Natural and Commercial Insecticides on Wheat"

Coalition for Conservation & Environmental Education

Outstanding Environmental Project

1 Winner : Junior Division : Received a \$50 Cash Award a Large Purple Rosette Ribbon and a Certificate

Brittany Dixon, Oak Grove School District , "Pollutant Effects on Daphnia"

Geosciences and Meteorology

UND Department of Geology and Geological Engineering

Project in the Geosciences Category

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

Lora Horner, Wishek School District , "Radiation"

UND Department of Geology and Geological Engineering

Project in the Geosciences Category

1 Winner : Senior Division : Received a cash award of \$100 and a \$250 scholarship and a certificate

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

UND Department of Atmospheric Sciences

Project in the Field of Atmospheric Science

1 Winner : Junior or Senior Division : Received a cash award of \$50 and a certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

American Meteorological Society

Project Related to Meteorology

2 Winners : Junior or Senior Division : Received a Certificate

Roseanna Johnson, Trenton School District , "Ultraviolet Bacterial Protection"

Taylor Zimprich, Griggs County Central School District , "Fibromyalgia vs. Weather"

Association for Women Geoscientists

Project Related to Geosciences

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

Brooklyn Vollmer, Wing School District , "Soil on Steroids"

National Oceanic & Atmospheric Administration

Project Related to Improved Understanding of the Earth's Processes

1 Winner : Junior Division : Received a Certificate and a Medallion

Branden Skjoiten, Hankinson School District , "Lake Water Quality...Do you really want to go for a swim?"

North Dakota Geological Society

Project in Field of Geology or Earth Science

1 Winner : Junior Division : Received a Cash Award Of \$50 and a Certificate

Branden Skjoiten, Hankinson School District , "Lake Water Quality...Do you really want to go for a swim?"

North Dakota Geological Society

Project in Field of Geology or Earth Science

1 Winner : Senior Division : Received a Cash Award Of \$50 and a Certificate

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

American Meteorological Society (Lake Agassiz Chapter)
Project of Outstanding Achievement for Ability and Creativity in an Atmospheric Science Exhibit
1 Winner : Junior Division : Received a Certificate
Branden Skjoiten, Hankinson School District , "Lake Water Quality...Do you really want to go for a swim?"

American Meteorological Society (Lake Agassiz Chapter)
Project of Outstanding Achievement for Ability and Creativity in an Atmospheric Science Exhibit
1 Winner : Senior Division : Received a Certificate
Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Human Development and Family Science

North Dakota Academy of Family Physicians
Project Related to Medicine
1 Winner : Senior Division : Received a Cash Award Of \$50 and a Certificate
Jennifer Riemann, Hankinson School District , "The Usage of Wildflowers as Natural Preservatives"

Human Nutrition

UND Department of Nutrition & Dietetics
Project in the Area of Nutrition and Food Science
1 Winner : Junior Division : Received a cash award of \$25 and a certificate
Riley McLean, Cathedral School District , "Eggs!"

UND Department of Nutrition & Dietetics / College of Nursing
Project in the Area of Nutrition and Food Science
1 Winner : Senior Division : Received a cash award of \$50 and a \$250 scholarship and a certificate
Jennifer Riemann, Hankinson School District , "The Usage of Wildflowers as Natural Preservatives"

North Dakota Dietetic Association
Project Related to Science of Human Nutrition
1 Winner : Senior Division : Received a Savings Bond Valued At \$100 and a Certificate
Abbie Sondeland, Valley/Edinburg School District , "The Tell-Tale Heart of Daphnia"

North Dakota Dietetic Association
Project Related to Science of Human Nutrition
1 Winner : Junior Division : Received a Savings Bond Valued At \$50 and a Certificate
Logan Kramer, Strasburg School District , "Lactose Carbohydrates in Milk"

North Dakota Dietetic Association
Project Related to Science of Human Nutrition
1 Winner : Senior Division : Received a Savings Bond Valued At \$50 and a Certificate
Eva Byerley, Ellendale School District , "Misleading Medicine"

North Dakota Dietetic Association
Project Related to Science of Human Nutrition
1 Winner : Junior Division : Received a Savings Bond Valued At \$100 and a Certificate
Martin Krump, Hankinson School District , "An Analysis in Cheese Production Using Cow and Goat Milk"

ISEF Alumni

ISEF Alumni

Project As Determined By ISEF Judges

1 Winner : Junior or Senior Division : Received a Cash Award Of \$200 and a Certificate
Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

ISEF Alumni

Project As Determined By ISEF Judges

1 Winner : Junior or Senior Division : Received a Cash Award Of \$100 and a Certificate
Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

Laboratory Medicine, Microbiology, Medicine, and Health

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

1 Winner : Senior Division : Received a cash award of \$100 and a certificate
Tony Krautbauer, Hankinson School District , "The Effects of Acid Reducers on the pH of Stomach Acid and the Growth of E. coli"

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Kate Fox, Wing School District , "How Singing Affects Vital Signs"

UND Department of Anatomy

Project Related to Medical or Health Sciences

1 Winner : Junior Division : Received a cash award of \$100 and a certificate
Mya Steinwehr, Hankinson School District , "The Production of a Natural Fungicide Derived From Flowers"

UND Department of Anatomy

Project Related to Medical or Health Sciences

1 Winner : Senior Division : Received a cash award of \$100 and a certificate
Abbie Sondeland, Valley/Edinburg School District , "The Tell-Tale Heart of Daphnia"

UND Department of Microbiology / Immunology

Project Related to Microbiology / Immunology or Infectious Disease

2 Winners : Junior Division : Received a cash award of \$50 and a certificate
Jayce Moor, Lakota School District , "Heat it Up"

Betsy Asp, Hankinson School District , "The Inhibitory Properties of Herbs on Pathogenic Bacteria"

UND Department of Microbiology / Immunology

Project Related to Microbiology / Immunology or Infectious Disease

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

Jennifer Riemann, Hankinson School District , "The Usage of Wildflowers as Natural Perservatives"
Blaine Durward, Trenton School District , "Eco System Solution"

UND Department of Pathology
Project Related to Medical or Health Sciences
2 Winners : Junior Division : Received a cash award of \$100 and a certificate
Brennen Boll, Hankinson School District , "A Comparative Study of Commercial and Herbal Toothpaste"
Natalie Duppong, Glen Ullin School District , "Are You Hooked?"

UND Department of Pathology
Project Related to Medical or Health Sciences
2 Winners : Senior Division : Received a cash award of \$100 and a certificate
Hayley Fingarson, Valley/Edinburg School District , "Immortal Under the Edge of the Knife"
Kelsey Gaukler, Hankinson School District , "The Chemical and Microbial Analysis of Well Water"

North Dakota Society for Clinical Laboratory
Project Related to Laboratory Medicine
1 Winner : Senior Division : Received a Cash Award Of \$25 and a Certificate
Tayson O'Hara, Hankinson School District , "The Bacteriostatic Tendencies of Tree Bark"

North Dakota Society for Clinical Laboratory
Project Related to Laboratory Medicine
1 Winner : Junior Division : Received a Cash Award Of \$25 and a Certificate
Madison Sanders, Trinity Christian School District , "The Best Method Of Hand Washing"

Mathematics and Computer Science

UND Department of Computer Science
Project in the Computer Science Category
1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Jarom Musgrove, Schroeder, GF School District , "Stealthy Aircraft"

UND Department of Computer Science
Project in the Computer Science Category
1 Winner : Senior Division : Received a cash award of \$50 and a certificate
Vahid Fazel-Rezai, Red River School District , "Swap to Sort:Analysis fo the Winnability of a Function-Based Game"

UND Department of Mathematics
Project in the Mathematics Category
1 Winner : Junior Division : Received a cash award of \$50 and a certificate
Hunter Pinke, Wishek School District , "How Insulation Traps and Holds Heat"

UND Department of Mathematics
Project in the Mathematics Category
1 Winner : Senior Division : Received a cash award of \$100 and a \$500 scholarship and a certificate
Vahid Fazel-Rezai, Red River School District , "Swap to Sort:Analysis fo the Winnability of a Function-Based Game"

UND College of Arts & Sciences
Outstanding Math or Science Project
1 Winner (must be a female exhibitor) : Senior Division : Received a cash award of \$100 and a certificate
Mariah Kinneberg, Dakota Prairie School District , "Composer's Second Signature"

UND College of Arts & Sciences

Outstanding Math or Science Project

1 Winner (must be a female exhibitor) : Junior Division : Received a cash award of \$50 and a certificate

Alexandra Hoff, Schroeder, GF School District , "Building Strength Geodesic Domes vs Regular Building"

Intel Excellence in Computer Science

Project in Computer Science Category

1 Winner : Senior Division : Received a Cash Award Of \$200 and a Certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Mu Alpha Theta

Project Involving Modern Mathematics

1 Winner : Senior Division : Received a Certificate

Benjamin Schuler, Wishek School District , "Light Speed III"

United States Metric Association

Project Using Metric System For Measurements

5 Winners : Junior Division : Received a Certificate

Noelle Hove, Trenton School District , "Fruity DNA"

Jacob Nelson, Trenton School District , "Water Hydraulics"

Mara Roteliuk, Sawyer School District , "Crystal Creations"

Alexandra Hoff, Schroeder, GF School District , "Building Strength Geodesic Domes vs Regular Building"

Shawn Postovit, Tioga School District , "Expansion"

Yale Science and Engineering Association

Project in Areas of Computer Science

1 Winner : Senior Division : Received a Medallion and a Certificate

Kyra Campbell, Trenton School District , "The Uncanny Valley"

American Statistical Association (RR Valley)

Project That Best Used Statistical Methods & Reasoning

1 Winner : Junior Division : Received a Cash Award Of \$25 and a Certificate

Jacob Nelson, Trenton School District , "Water Hydraulics"

Optometry

North Dakota Optometric Association

Project in Field of Optometry

2 Winners : Senior Division : Received a Cash Award Of \$50 and a Certificate

Katelyn Fastnacht, Ellendale School District , "Banish Biofilms"

Sarah Lynch, Trinity Christian School District , "Seeing Colors"

North Dakota Optometric Association

Project in Field of Optometry

2 Winners : Junior Division : Received a Cash Award Of \$50 and a Certificate

Mikaela Kujanson, Oak Grove School District , "Distracted Driving"

Jessica Edinger, Grant County School District , "Photography and Emotions"

Pharmacology, Pharmacy, Nursing

UND Department of Pharmacology, Physiology & Therapeutics

Project Related to Medical or Health Sciences

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

Wyatt Wilm, Hankinson School District , "The Relevancy of Hand Soaps in Today's Society"

UND Department of Pharmacology, Physiology & Therapeutics

Project Related to Medical or Health Sciences

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

Molly Ketterling, Grant County School District , "Bioformatics: The Perfect Union of Computer Science and Medicine"

UND College of Nursing

Project Related to Nursing, Nutrition or Social Work

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

Abbie Sondeland, Valley/Edinburg School District , "The Tell-Tale Heart of Daphnia"

UND College of Nursing

Project Related to Nursing, Nutrition or Social Work

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

Eva Byerley, Ellendale School District , "Misleading Medicine"

North Dakota Pharmacists Association

Project in Field of Pharmacology

1 Winner : Junior Division : Received a Cash Award Of \$75 and a Certificate

Betsy Asp, Hankinson School District , "The Inhibitory Properties of Herbs on Pathogenic Bacteria"

North Dakota Pharmacists Association

Project in Field of Pharmacology

1 Winner : Senior Division : Received a Cash Award Of \$100 and a Certificate

Sadie Sondeland, Valley/Edinburg School District , "Don't Doubt the Doctor's Dose: The Effect of Dosage on Antibiotic Resistance"

Physics and Physical Science

UND Department of Physics

Project in the Physics Category

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

Hunter Pinke, Wishek School District , "How Insulation Traps and Holds Heat"

UND Department of Physics

Project in the Physics Category

1 Winner : Senior Division : Received a cash award of \$100 and a \$500 scholarship and a certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner : Senior Division : Received a \$50 Savings Bond and a Certificate

Benjamin Schuler, Wishek School District , "Light Speed III"

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner : Junior Division : Received a \$50 Savings Bond and a Certificate

Jarom Musgrove, Schroeder, GF School District , "Stealthy Aircraft"

Psychology and Behavioral Sciences

Virginia George Inheritance Fund

Project in the Field of Behavioral Science

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

Ethan Johnson, Hope/Page School District , "Pay Attention!"

Virginia George Inheritance Fund

Project in the Field of Behavioral Science

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

Taylor Anderson, Lakota School District , "Want a Job? Get a Haircut!"

UND Department of Psychology

Project in the Psychology or Behavioral Science Category

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

Gavin LaPlant, Griggs County Central School District , "Using Pavlov's Law to Solve a Problem"

UND College of Arts & Sciences

Project in the Fields of Social or Behavioral Science

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

Kelsey Guttormson, Tioga School District , "Disturbing Thoughts"

UND College of Arts & Sciences

Project in the Fields of Social or Behavioral Science

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

Mikaela Kujanson, Oak Grove School District , "Distracted Driving"

American Psychological Association

Project Related to Psychology

1 Winner : Junior or Senior Division : Received a Certificate

Ethan Johnson, Hope/Page School District , "Pay Attention!"

Tissue Culture

Society for In Vitro Biology

Project in the Area of Tissue Culture

1 Winner : 11th Grader Division : Received a Certificate

Max Freed, Trinity Christian School District , "Homeopathic Staph Killer"

U.S. Air Force

United States Air Force

Project That Has Applications Useful to Air Force

4 Winners : Junior or Senior Division : Received a Victory Sport Bag, a Sonic Sound Speaker, a Junior Tech Organizer, and a Certificate

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

Kristian Myrdal, Valley/Edinburg School District , "The Effect of Dust on the Development Brassica rapa"

Jasmine Kreft, Trinity Christian School District , "Unlocking The Potential"

U.S. Army

United States Army

Project in the Engineering Categories

1 Winner : Senior Division : Received a Certificate In a Presentation Folder & a \$50 Savings Bond

Mary Skjervheim, Adams/Edmore School District , "Wind Turbines"

United States Army

Project in the Environmental Science Categories

1 Winner : Senior Division : Received a Certificate In a Presentation Folder & a \$50 Savings Bond

Blaine Durward, Trenton School District , "Eco System Solution"

United States Army

Project in Mathematics/Computer Categories

1 Winner : Senior Division : Received a Certificate In a Presentation Folder & a \$50 Savings Bond

Marley Click, Linton School District , "Do They Fit?"

United States Army

Project in the Life Sciences Categories

1 Winner : Senior Division : Received a Certificate In a Presentation Folder & a \$50 Savings Bond

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

United States Army

Project in All of the ISEF Categories

1 Winner : Senior Division : Received a Certificate In a Presentation Folder a \$100 Savings Bond

and a Silver Medallion for Science Excellence

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

U.S. Navy

United States Navy

Project (All Categories Considered)

3 Winners : Senior Division : Received An Educational Recognition Award Valued At \$75 a Medallion and a Certificate

Kelsey Gaukler, Hankinson School District , "The Chemical and Microbial Analysis of Well Water"

Tayson O'Hara, Hankinson School District , "The Bacteriostatic Tendencies of Tree Bark"

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

United States Navy

Project (All Categories Considered)

3 Winners : Junior Division : Received a Medallion and a Certificate

Paige Schmidt, Kidder Co. Tappen School District , "Artificially Inseminated or Bull Bred"

Shae Lynn Johnson, Griggs County Central School District , "Does Winter Feed Choices Affect Spring Fertilizer Values?"

Brooklyn Vollmer, Wing School District , "Soil on Steroids"

Veterinary Medicine

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner : Senior Division : Received a Cash Award Of \$100 and a Certificate

Kristi Goldade, Strasburg School District , "Colors That Fly"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner : Senior Division : Received a Cash Award Of \$75 and a Certificate

Sadie Sondeland, Valley/Edinburg School District , "Don't Doubt the Doctor's Dose: The Effect of Dosage on Antibiotic Resistance"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner : Junior Division : Received a Cash Award Of \$25 and a Certificate

Paige Buck, Hankinson School District , "Effects of Fishmeal on the Growth of Gallus domesticus"

North Dakota Veterinary Medical Assn. Auxiliary

Project Related to Veterinary Medicine

1 Winner : Junior Division : Received a Cash Award Of \$50 and a Certificate

Paige Schmidt, Kidder Co. Tappen School District , "Artificially Inseminated or Bull Bred"

Water Quality

Water Environment Federation

Project Related to Water Quality or Water Conditions

1 Winner : Junior or Senior Division : Received a Certificate

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

American Water Works Association

Project Related to Drinking Water Quality

1 Winner : Junior Division : Received a Cash Award Of \$75 and a Certificate

Lakin Mauch, Hankinson School District , "An Inquiry Into the Contamination Levels of Well Water"

American Water Works Association

Project Related to Drinking Water Quality

1 Winner : Senior Division : Received a Cash Award Of \$75 and a Certificate

Kelsey Gaukler, Hankinson School District , "The Chemical and Microbial Analysis of Well Water"

North Dakota Water Environment Association

Project Related to Water Quality

1 Winner : Senior Division : Received a Cash Award Of \$75 and a Plaque

Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

North Dakota Water Environment Association

Project Related to Water Quality

1 Winner : Junior Division : Received a Cash Award Of \$75 and a Plaque

Brittany Dixon, Oak Grove School District , "Pollutant Effects on Daphnia"

North Dakota Rural Water Systems Association

Project Related to Water Quality

1 Winner : Senior Division : Received a Cash Award Of \$100 and a Plaque

Kelsey Gaukler, Hankinson School District , "The Chemical and Microbial Analysis of Well Water"

Junior Division Place Winners

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

Northwest Region

1st Place - Dusti Seidel, Trenton School District , "Sleep Vs. Stress"

2nd Place - Wyatt McCreary, Trinity Christian School District , "Electrical Power"

3rd Place - Emilee Falcon, Trenton School District , "Retain The Insane"

4th Place - Madysen Houle, Trenton School District , "House Invaders"

North Central Region

1st Place - Jayden Walsh, Sawyer School District , "Hacky Sack Catapult"

2nd Place - Mara Roteliuk, Sawyer School District , "Crystal Creations"

3rd Place - Krista Lagge, Sawyer School District , "Floating Egg"

Northeast Region

1st Place - Taylor Anderson, Lakota School District , "Want a Job? Get a Haircut!"

2nd Place - Jake Sturges, Schroeder, GF School District , "Are Fingerprints Inherited?"

3rd Place - Nathan Steffan, Lakota School District , "Gelled Up?"

4th Place - Nicole Landsem, Adams/Edmore School District , "Soil vs Hydroponics"

Southwest Central Region

1st Place - Dale Spilman, Mandan School District , "Comparison of Glued Bridge Joints"

2nd Place - Jessica Edinger, Grant County School District , "Photography and Emotions"

3rd Place - Kaitlyn Binstock, Wing School District , "Plants Galore"

4th Place - Andrew Hulm, Strasburg School District , "Exhaust Pipe Fires"

Southeast Central Region

1st Place - Hunter Pinke, Wishek School District , "How Insulation Traps and Holds Heat"

2nd Place - Eva Byerley, Ellendale School District , "Misleading Medicine"

3rd Place - Cole Ketterling, Wishek School District , "Which Fertilizer is the Most Important to Wheat"

4th Place - Sean Loken, Wishek School District , "GBSE Technology"

Southeast Region

1st Place - Brennen Boll, Hankinson School District , "A Comparative Study of Commercial and Herbal Toothpaste"

2nd Place - Wyatt Wilm, Hankinson School District , "The Relevancy of Hand Soaps in Today's Society"

3rd Place - Mya Steinwehr, Hankinson School District , "The Production of a Natural Fungicide Derived From Flowers"

4th Place - Betsy Asp, Hankinson School District , "The Inhibitory Properties of Herbs on Pathogenic Bacteria"

Junior Division Sweepstakes Winners

The first place (Sweepstakes) winner received a gold state plaque and a \$100 cash award from the North Dakota State Science and Engineering Fair Association.

The second place (Sweepstakes Runner-Up) winner received a silver state plaque and a \$50 cash award from the North Dakota State Science and Engineering Fair Association.

Junior Division 1st Place - Sweepstakes Winner

Carter Mauch, Hankinson School District , "The Pesticidal Properties of the Goosefoot Family"

Junior Division 2nd Place - Sweepstakes Runner-Up

Paige Buck, Hankinson School District , "Effects of Fishmeal on the Growth of Gallus domesticus"

Senior Division Place Winners

All first and second place winners received a gold plaque and a hooded sweatshirt and will advance to the ISEF in Pittsburgh Pennsylvania in May and will exhibit their project.

All third and fourth place winners received a silver plaque and are alternates to the ISEF in Pittsburgh Pennsylvania in May but will not exhibit their project unless a first or second place winner cannot attend.

Northwest Region

1st Place - Jasmine Kreft, Trinity Christian School District , "Unlocking The Potential"

2nd Place – Blaine Durward, Trenton School District , "Eco System Solution"

3rd Place - Brooklyn Hurley, Trenton School District , "The Inhibitory Effects Of Native American Plants"

4th Place - Kelsey Guttormson, Tioga School District , "Disturbing Thoughts"

North Central Region

1st Place - Preston Miller, Sawyer School District , "Does PVC Size Limit Geyser Height"

2nd Place - Isaiah Bender, Sawyer School District , "What's the Most Flammable"

3rd Place - Valerie Olson, Sawyer School District , "What Color Are Your Socks?"

(1st Place winner is the only presenter from region at ISEF.)

Northeast Region

1st Place - Vahid Fazel-Rezai, Red River School District , "Swap to Sort:Analysis fo the Winnability of a Function-Based Game"

2nd Place - Abbie Sondeland, Valley/Edinburg School District , "The Tell-Tale Heart of Daphnia"

3rd Place - Mariah Kinneberg, Dakota Prairie School District , "Composer's Second Signature"

(1st Place winner is the only presenter from region at ISEF.)

Southwest Central Region

1st Place - Kristi Goldade, Strasburg School District , "Colors That Fly"

2nd Place - Tani White, Simle School District , "How Do I Look?"

3rd Place - Kellie Tougas, Strasburg School District , "Environmental Effects on the Detection of Lead at Bullet Impact Sites"

(1st Place winner is the only presenter from region at ISEF.)

Southeast Central Region

1st Place - Tyler Toepke-Floyd, Wishek School District , "It's All in the Fuel"

2nd Place - Benjamin Schuler, Wishek School District , "Light Speed III"

3rd Place - Taylor Ketterling, Wishek School District , "Does Tissue Sampling Increase Profit II"

4th Place - Brenna Ketterling, Wishek School District , "Soybeans: Yield vs. Profit"

Southeast Region

1st Place - Grady Mauch, Hankinson School District , "The Effects of the Aster Family on Sugar Beet Production"

2nd Place - Kelsey Gaukler, Hankinson School District , "The Chemical and Microbial Analysis of Well Water"

3rd Place - Gage Metzen, Hankinson School District , "Impact of Field Drainage Tile on River Water Quality"

4th Place - Taylor Zimprich, Griggs County Central School District , "Fibromyalgia vs. Weather"

Senior Division Sweepstakes Winners

The first place (sweepstakes) winner received a gold state plaque, a hooded sweatshirt, a \$500 cash award and a \$3,000 scholarship to the University of North Dakota and will advance to the ISEF in Pittsburgh Pennsylvania in May and will exhibit his/her project.

The second place (sweepstakes runner-up) winner received a silver state plaque, a hooded sweatshirt, a \$250 cash award and a \$2,500 scholarship to the University of North Dakota and will advance to the ISEF in Pittsburgh Pennsylvania in May and will exhibit his/her project.

The third place (sweepstakes 2nd runner-up) winner received a state plaque, a hooded sweatshirt and a \$150 cash award and will advance to the ISEF in Pittsburgh Pennsylvania in May and will exhibit his/her exhibit.

Senior Division – 1st Place – Sweepstakes Winner

Caleb Meyer, Hope/Page School District , "Wind: A New Spin On Things"

Senior Division – 2nd Place – Sweepstakes Runner-Up

Dre Steinwehr, Hankinson School District , "The Impct of Fungicides on Corn Growth and Ethanol Production"

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

Tanner Coppin, Hankinson School District , "An Inquisition of Natural and Commercial Insecticides on Wheat"