

2014 Final Awards – ND State Science and Engineering Fair

Senior Division Sweepstakes Winners

The first place (Marcus J. Friskop Sweepstakes) winner received a gold state plaque, a hooded sweatshirt, a \$200 cash award from the Marcus J. Friskop Family, a \$500 cash award from the University of North Dakota Division of Student Affairs / UND Office of Research & Economic Development, and a 1 Year \$2500 Scholarship to the University of North Dakota and will advance to the ISEF in Los Angeles and will exhibit his/her project.

The second place (sweepstakes runner-up) winner received a gold state plaque, a hooded sweatshirt, a \$250 cash award from the University of North Division of Student Affairs / UND Office of Research & Economic Development, and a 1 Year \$2000 Scholarship to the University of North Dakota and will advance to the ISEF in Los Angeles and will exhibit his/her project.

The third place (sweepstakes 2nd runner-up) winner received a state plaque, a hooded sweatshirt, a \$200 cash award from the University of North Dakota School of Graduate Studies, and a 1 Year \$1000 Scholarship to the University of North Dakota and will advance to the ISEF in Los Angeles California and will exhibit his/her project.

Senior Division – 1st Place – Sweepstakes Winner

Gage Metzen, Hankinson School District , "The Natural Decontamination of Industrial and Agricultural Water"

Senior Division – 2nd Place – Sweepstakes Runner-Up

Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on Leptinotarsa decemlineata and Solanum tuberosum"

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

Grady Mauch, Hankinson School District , "The Fungicidal Impact of Detrimental Weeds on Soybeans"

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 Los Angeles California in May and will exhibit their project.

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

Norhtwest Region

1st Place - Symbria Bell, New Town School District , "Is Lake Sakakawea As Healthy As It Should Be?"

2nd Place - Kelsey Guttormson, Tioga School District , "Hello My Name Is... Happy!"

3rd Place - Ryan Joyce, Tioga School District , "Power Struggle"

4th Place - Cheyenne Liedle, Tioga School District , "Oink Oink"

North Central Region

1st Place - Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

2nd Place - Paul Eapen, Our Redeemer Christian School School District , "A Novel Simple Identification Method for Urinary Stones"

3rd Place - Preston Miller, Sawyer School District , "Vortexing Magnetic Fields"

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

Northeast Region

1st Place - Devarshi Patel, Red River School District , "Molecular Biology of Selenoenzymes in Prevention of Mercury Toxicity"

2nd Place - Morgan Ellingson, Valley/Edinburg School District , "The Relative Effects of Curcuminoids on HPV (positive and negative) Cervical Cancer Cells"

3rd Place - Shelby Cyr, Valley/Edinburg School District , "The Effects of Soluble Versus Fibrillar A beta Peptide on Polyamine Synthesis in Neural Tissue- Relevance to Alzheimer's Disease"

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

Southwest Central Region

1st Place - Dale Spilman, Mandan School District , "Fungus Amongus"

2nd Place - Seth Obritsch, Belfield School District , "Supplementing Cattle: Is it really worth it? Feeding Heifers in a ND Winter"

3rd Place - Andrew Hulm, Strasburg School District , "Helianthus Annuus Incendium"

4th Place - Savannah Canen, Hebron School District , "How Sleep Deprivation Affects Your Reactions"

Southeast Central Region

1st Place - Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

2nd Place - Sean Loken, Wishek School District , "Solar Engine Applications II"

3rd Place - Hunter Pinke, Wishek School District , "Impact Damage of Hail on Shingles"

4th Place - Rigo Martinez Jr., Kidder Co. Tappen School District , "The Speed of Propeller Blades"

Southeast Region

1st Place - Carter Mauch, Hankinson School District , "The Insecticidal Properties of Noxious Weeds"

2nd Place - Brennen Boll, Hankinson School District , "The Observation of Growth Enhancers on the Development and Meat Quality of Sus scrofa"

3rd Place - Tayson O'Hara, Hankinson School District , "Bacteriostatic Properties of Tree Leaves"

4th Place - Wyatt Wilm, Hankinson School District , "An Analysis of Human Distraction"

Junior Division Sweepstakes Winners

The first place (Sweepstakes) winner received a gold state plaque, a \$100 cash award from the University of North Dakota School of Graduate Studies, and a \$250 cash award in honorarium of Marcus J. Friskop from the Maddock High School Science Fair Alumni Students.

The second place (Sweepstakes Runner-Up) winner received a silver plaque and a \$50 cash award from the University of North Dakota Graduate Studies.

Junior Division 1st Place – Sweepstakes Winner

Lakin Mauch, Hankinson School District , "A Comparison of Tiled and Non-tiled Fields"

Junior Division 2nd Place - Sweepstakes Runner-Up

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

Junior Division Place Winners

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

Northwest Region

1st Place - Thaddeus Moore, Trinity Christian School District , "Laws Of Light"

2nd Place - Joel Kletke, Trinity Christian School District , "Toxic Environment"

3rd Place - Abigail Larson, Tioga School District , "What Color Is Your Blood Pressure?"

4th Place - Nicole Postovit, Tioga School District , "Hands That Kill"

North Central Region

1st Place - Emma Howe, Velva School District , "Did You Hear That"

2nd Place - Noah Christman, Berthold School District , "Pop Can Heater"

3rd Place - Keaton Nelsen, Leeds School District , "How To Make Grass Not Grow So Fast"

4th Place - Evan Follman, Leeds School District , "Robots and Ultrasonic Sensors"

Northeast Region

1st Place - Maia Jackson, Schroeder School District , "Bad to the Bone"

2nd Place - Wesley Kemp, Valley Edinburg School District , "Calculating the Crash-Comparison of Collision & Impulse for Different Materials"

3rd Place - Micah Setness, Park River School District , "Corrosive Clash"

4th Place - Francie Shaft, Schroeder School District , "Molten Mitten"

Southwest Central Region

1st Place - Adam Hulm, Strasburg School District , "Which Soil Retains the Most Water"

2nd Place - Mattie Milford, Bismarck Homeschool School District , "Which Rocks Work Best for Roads"

3rd Place - Abbigale Steeke, Scranton School District , "Go Away Bacteria"

4th Place - Sam Dart, Grant County School District , "Supercooling & the Mpemba Effect"

Southeast Central Region

1st Place - Olivia Byerley, Ellendale School District , "Busting Bristle Bacteria"

2nd Place - Yuliet Monatukwa, Ellendale School District , "Bacteria Among Us"

3rd Place -- Casey Durham, Ellendale School District , "Wipes in the Pipes"

4th Place - Chase Bader, Wishek School District , "Shaping Your Thoughts"

Southeast Region

1st Place - Branden Skjoiten, Hankinson School District , "A Chemical and Biological Analysis of Lake Water Decontamination"

2nd Place - Abbey Simonson, Oak Grove Middle School School District , "Effects of Chemicals on Daphnia"

3rd Place - Jeremy Liljenquist, Griggs County Central School District , "Bringing Saline and Sodic Soils to Life"

4th Place - Cody Mauch, Hankinson School District , "The Effects of Natural Products on Glycine max Production"

Agriculture/Soil Science

UND School of Graduate Studies

Project Related to Agriculture

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

Cody Mauch, Hankinson School District , "The Effects of Natural Products on Glycine max Production"

UND School of Graduate Studies

Project Related to Agriculture

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

Brennen Boll, Hankinson School District , "The Observation of Growth Enhancers on the Development and Meat Quality of Sus scrofa"

Farmers Union Insurance - North Dakota

Project Related to Agriculture

2 Winners: Senior Division : Received A Cash Award of \$50 And a Certificate

Carter Mauch, Hankinson School District , "The Insecticidal Properties of Noxious Weeds"

Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on Leptinotarsa decemlineata and Solanum tuberosum"

Farmers Union Insurance - North Dakota

Project Related to Agriculture

2 Winners: Junior Division : Received A Cash Award of \$25 And a Certificate

Ben Krump, Hankinson School District , "Effect of Natural Fertilizers on the Native Prairie"

Lakin Mauch, Hankinson School District , "A Comparison of Tiled and Non-tiled Fields"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

1 Winner: Senior Division : Received A Cash Award of \$150 And a Certificate

Grady Mauch, Hankinson School District , "The Fungicidal Impact of Detrimental Weeds on Soybeans"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

1 Winner: Senior Division : Received A Cash Award of \$50 And a Certificate

Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on Leptinotarsa decemlineata and Solanum tuberosum"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

1 Winner: Junior Division : Received A Cash Award of \$150 And a Certificate

Jeremy Liljenquist, Griggs County Central School District , "Bringing Saline and Sodic Soils to Life"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

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

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

Air Force

United States Air Force

Project That Has Applications Useful to Air Force

4 Winners: Junior or Senior Division : Received A Laptop Backpack, Traveling Ear buds and Case, A Rotating Flashdrive, a 4 Port Hub, And a Certificate

Nathaniel Geestman, Linton School District , "Popularity Contest"

Shelby Cyr, Valley/Edinburg School District , "The Effects of Soluble Versus Fibrillar A beta Peptide on Polyamine Synthesis in Neural Tissue- Relevance to Alzheimer's Disease"

Max Freed, Trinity Christian School District , "Ballistic About Aerogel"

Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

Army

United States Army

Project (All Categories Considered)

1 Winner: Senior Division : Received A Backpack, A Nalgene Water Bottle, A Notebook, And a Certificate

Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

Chemistry/Biochemistry

UND Department of Chemistry

Project in the Chemistry Category

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

Lakin Mauch, Hankinson School District , "A Comparison of Tiled and Non-tiled Fields"

UND Department of Chemistry

Project in the Chemistry Category

1 Winner: Senior Division : Received A Monetary Award of \$100, A \$300 Scholarship, And a Certificate

Devarshi Patel, Red River School District , "Molecular Biology of Selenoenzymes in Prevention of Mercury Toxicity"

American Association for Clinical Chemistry

Project in Clinical Chemistry

1 Winner: Senior Division : Received A Cash Award of \$100 And a Certificate

Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

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 5-in-1 Pen, And a Certificate

Symbria Bell, New Town School District , "Is Lake Sakakawea As Healthy As It Should Be?"

NDSSEF Association

Project in Biochemistry

1 Winner: Senior Division : Received A Cash Award of \$50 And A Certificate

Shelby Cyr, Valley/Edinburg School District , "The Effects of Soluble Versus Fibrillar A beta Peptide on Polyamine Synthesis in Neural Tissue- Relevance to Alzheimer's Disease"

Dentistry/Optomety

North Dakota Dental Foundation

Project Related to Dentistry

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

Hayden Boll, Hankinson School District , "A Comparative Analysis of Various Toothpastes"

North Dakota Dental Foundation

Project Related to Dentistry

2 Winners: Senior Division : Received A Cash Award of \$50 And a Certificate

Madysen Houle, Trenton School District , "Human vs. Canine"

Paige Buck, Hankinson School District , "What Should Your Enamel be Wearing?"

North Dakota Optometric Association

Project in Field of Optometry

2 Winners: Senior Division : Received A Cash Award of \$50 And a Certificate

Micayla Erdahl, Velva School District , "What "Eye" See"

Danielle Durand, Valley/Edinburg School District , "Correlation Between Eye Color and Sensitivity to Bright Light"

Earth/Atmospheric Sciences

UND Department of Atmospheric Sciences

Project in the Field of Atmospheric Science

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

Sam Dart, Grant County School District , "Supercooling & the Mpemba Effect"

UND Odegard School of Aerospace Sciences

Project in Earth (Geology/Geography and Atmospheric Sciences)

1 Winner: Junior Division : Received A Monetary Award of \$100 And a Certificate

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

UND Odegard School of Aerospace Sciences

Project in Earth (Geology/Geography and Atmospheric Sciences)

1 Winner: Senior Division : Received A Monetary Award of \$150 And a Certificate

Carter Mauch, Hankinson School District , "The Insecticidal Properties of Noxious Weeds"

UND Department of Geography

Project in the Geography Category

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

Ben Krump, Hankinson School District , "Effect of Natural Fertilizers on the Native Prairie"

UND Department of Geography

Project in the Geography Category

1 Winner: Senior Division : Received A Monetary Award of \$50, A \$250 Scholarship, And a Certificate

Gage Metzen, Hankinson School District , "The Natural Decontamination of Industrial and Agricultural Water"

American Society of Photogrammetry and Remote Sensing, St. Louis Region

Project in the Field of Geospatial Mapping or Earth Science

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

Gage Metzen, Hankinson School District , "The Natural Decontamination of Industrial and Agricultural Water"

National Oceanic & Atmospheric Administration

Project Related to Improved Understanding of the Earth's Processes

1 Winner: Junior Division : Received A Certificate And a Medallion

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

Association For Women Geoscientists

Project Related to Geosciences

1 Winner (Must Be A Female Exhibitor): Junior or Senior Division : Received A Certificate
Mattie Milford, Bismarck Homeschool School District , "Which Rocks Work Best for Roads"

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
Mattie Milford, Bismarck Homeschool School District , "Which Rocks Work Best for Roads"

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
Carter Mauch, Hankinson School District , "The Insecticidal Properties of Noxious Weeds"

American Meteorological Society

Project Related to Meteorology

2 Winners: Junior or Senior Division : Received A Certificate
Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"
Symbria Bell, New Town School District , "Is Lake Sakakawea As Healthy As It Should Be?"

Energy/Power/Electricity

Otter Tail Power Company

Project Related to Energy or Electricity

3 Winners: Senior Division : Received A Cash Award of \$50 And a Certificate
Sean Loken, Wishek School District , "Solar Engine Applications II"
Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"
Ryan Joyce, Tioga School District , "Power Struggle"

Otter Tail Power Company

Project Related to Energy or Electricity

2 Winners: Junior Division : Received A Cash Award of \$50 And a Certificate
Gurturan Johal, Oak Grove Middle School School District , "What's Best to Drink"
Wesley Kemp, Valley Edinburg School District , "Calculating the Crash-Comparison of Collision & Impulse for Different Materials"

Xcel Energy

Project Related to Energy or Electricity

3 Winners: Junior Division : Received A Cash Award of \$25 And a Certificate
Jayron Mardani, Schroeder School District , "Pencil Resistors"
Ashley Vollmer, Velva School District , "Investigating the Mpemba Effect"
Kordell Loewen, Velva School District , "Mentos and Cola"

Xcel Energy

Project Related to Energy or Electricity

3 Winners: Senior Division : Received A Cash Award of \$25 And a Certificate
Wyatt Wilm, Hankinson School District , "An Analysis of Human Distraction"
Preston Miller, Sawyer School District , "Vortexing Magnetic Fields"
Sean Loken, Wishek School District , "Solar Engine Applications II"

MDU Resources Group, Inc.

Project Related to Energy or Electricity

3 Winners: Senior Division : Received A Cash Award of \$25 And a Certificate
Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"
Ryan Joyce, Tioga School District , "Power Struggle"
Adam Fisher, Leeds School District , "Boat Hulls"

MDU Resources Group, Inc.

Project Related to Energy or Electricity

3 Winners: Junior Division : Received A Cash Award of \$25 And a Certificate
Evan Follman, Leeds School District , "Robots and Ultrasonic Sensors"
Casey Durham, Ellendale School District , "Wipes in the Pipes"
Gurturan Johal, Oak Grove Middle School School District , "What's Best to Drink"

Engineering

UND Department of Chemical Engineering

Project in the Chemical Engineering Category

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Desa Sand, Ellendale School District , "Stop that Leak"

UND Department of Chemical Engineering

Project in the Chemical Engineering Category

1 Winner: Senior Division : Received A Monetary Award of \$50 And a Certificate
Max Freed, Trinity Christian School District , "Ballistic About Aerogel"

UND Department of Civil Engineering

Project in the Civil Engineering Category

1 Winner: Junior Division : Received A Monetary Award of \$25 And a Certificate
Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

UND Department of Civil Engineering

Project in the Civil Engineering Category

1 Winner: Senior Division : Received A Monetary Award of \$25 And a Certificate
Cole Ketterling, Wishek School District , "Which Truss is the Strongest"

UND Department of Electrical Engineering

Project in the Electrical Engineering Category

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Noah Christman, Berthold School District , "Pop Can Heater"

UND Department of Electrical Engineering

Project in the Electrical Engineering Category

1 Winner: Senior Division : Received A Monetary Award of \$50 And a Certificate
Sean Loken, Wishek School District , "Solar Engine Applications II"

UND Department of Mechanical Engineering

Project in the Mechanical Engineering Category

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Philip Steffan, Lakota School District , "Are Screw Pumps Better?"

UND Department of Mechanical Engineering

Project in the Mechanical Engineering Category

1 Winner: Senior Division : Received A Monetary Award of \$50 And a Certificate
Hunter Pinke, Wishek School District , "Impact Damage of Hail on Shingles"

UND School of Engineering & Mines

Project Related to Engineering

1 Winner: Junior Division : Received A Monetary Award of \$100 And a Certificate
Tanner Kempf, Ashley School District , "Fishing Line Strength"

UND School of Engineering & Mines

Project Related to Engineering

1 Winner: Senior Division : Received A Monetary Award of \$200 And a Certificate
Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

IEEE Red River Valley Section

Project in Electrical Engineering

1 Winner: Senior Division : Received A Monetary Award of \$50 And a Certificate
Sean Loken, Wishek School District , "Solar Engine Applications II"

IEEE Red River Valley Section

Project in Electrical Engineering

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Noah Christman, Berthold School District , "Pop Can Heater"

Society of Automotive Engineers

Project in Mobility Engineering

1 Winner: Junior Division : Received A Cash Award of \$100 And a Certificate
Evan Follman, Leeds School District , "Robots and Ultrasonic Sensors"

Society of Automotive Engineers

Project in Mobility Engineering

1 Winner: Senior Division : Received A Cash Award of \$100 And a Certificate
Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

ASM Materials Education Foundation

Project in Materials Engineering

1 Winner: Junior or Senior Division : Received A Medallion And A Certificate
Adam Schaeftbauer, Strasburg School District , "How Wood Can Expand & Shrink 2"

Environmental Sciences

UND School of Engineering & Mines

Project in Energy or Environmental Science Categories

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

Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

UND School of Engineering & Mines

Project in Energy or Environmental Science Categories

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

Noah Christman, Berthold School District , "Pop Can Heater"

NDSSEF Association

Project Related to Environmental Remediation

1 Winner: Junior Division : Received A Cash Award of \$50 And A Certificate

Branden Skjoiten, Hankinson School District , "A Chemical and Biological Analysis of Lake Water Decontamination"

NDSSEF Association

Project Related to Environmental Remediation

1 Winner: Senior Division : Received A Cash Award of \$50 And A Certificate

Gage Metzen, Hankinson School District , "The Natural Decontamination of Industrial and Agricultural Water"

Ricoh Corporation

Project Related to Environmentally Friendly Businesses

1 Winner: Senior Division : Received A Certificate

Courtney Estad, Valley/Edinburg School District , "Harmful Herbicides-Effects of Common Agricultural Herbicides on Human Cells"

Coalition For Conservation & Environmental Education

Outstanding Environmental Project

1 Winner: Senior Division : Received A Cash Award of \$50, A Large Purple Rosette Ribbon, And a Certificate

Gage Metzen, Hankinson School District , "The Natural Decontamination of Industrial and Agricultural Water"

Coalition For Conservation & Environmental Education

Outstanding Environmental Project

1 Winner: Junior Division : Received A Cash Award of \$50, A Large Purple Rosette Ribbon, And a Certificate

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

Human Nutrition/Nursing

UND Department of Nutrition & Dietetics

Project in the Area of Nutrition and Food Science

1 Winner: Junior Division : Received A Monetary Award of \$25 And a Certificate
Bennett Carter, Park River School District , "Sweet Confusion"

UND Department of Nutrition & Dietetics

Project in the Area of Nutrition and Food Science

1 Winner: Senior Division : Received A Monetary Award of \$50, A \$250 Scholarship, And a Certificate

Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on *Leptinotarsa decemlineata* and *Solanum tuberosum*"

UND College of Nursing & Professional Disciplines

Project Related to Nursing

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

Davis Sunderland, Oak Grove Middle School School District , "Bacteria in Our Homes"

Braden Prochnow, Hankinson School District , "The Antimicrobial Effects of Wound Care Treatments"

UND College of Nursing & Professional Disciplines

Project Related to Nursing

2 Winners: Senior Division : Received A Monetary Award of \$200 And a Certificate

Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

Dale Spilman, Mandan School District , "Fungus Amongus"

North Dakota Dietetic Association

Project Related to Science of Human Nutrition

1 Winner: Senior Division : Received A Cash Award of \$100, And a Certificate

Brennen Boll, Hankinson School District , "The Observation of Growth Enhancers on the Development and Meat Quality of *Sus scrofa*"

U.S. Department Of Health And Human Service

Project Promoting Healthy Life Style

1 Winner: Junior or Senior Division : Received A Certificate

Hayden Boll, Hankinson School District , "A Comparative Analysis of Various Toothpastes"

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
Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on *Leptinotarsa decemlineata* and *Solanum tuberosum*"

ISEF Alumni

Project as Determined by ISEF Judges

1 Winner: Junior or Senior Division : Received A Cash Award of \$100 And a Certificate
Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

Life Sciences

UNDSMHS Department of Basic Sciences

Project in the Area of Life Sciences

2 Winners: Junior Division : Received A Monetary Award of \$50 And a Certificate
Juli Spilman, Mandan School District , "Effects of Freezing on Cells"
Jaxon Mauch, Hankinson School District , "A Microbial Analysis of the School Environment"

UNDSMHS Department of Basic Sciences

Project in the Area of Life Sciences

2 Winners: Senior Division : Received A Monetary Award of \$50 And a Certificate
Shelby Cyr, Valley/Edinburg School District , "The Effects of Soluble Versus Fibrillar A beta Peptide on Polyamine Synthesis in Neural Tissue- Relevance to Alzheimer's Disease"
Devarshi Patel, Red River School District , "Molecular Biology of Selenoenzymes in Prevention of Mercury Toxicity"

UND Department of Biology

Project in the Biology Category

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Branden Skjoiten, Hankinson School District , "A Chemical and Biological Analysis of Lake Water Decontamination"

UND Department of Biology

Project in the Biology Category

1 Winner: Senior Division : Received A Monetary Award of \$100, A \$300 Scholarship, And a Certificate
Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on *Leptinotarsa decemlineata* and *Solanum tuberosum*"

Society for In Vitro Biology

Project in the Area of Tissue Culture

1 Winner: 11th Grader Division : Received A Certificate
Morgan Ellingson, Valley/Edinburg School District , "The Relative Effects of Curcuminoids on HPV (positive and negative) Cervical Cancer Cells"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Senior Division : Received A Cash Award of \$100 And a Certificate
Zachary Fischer, Ashley School District , "What are Your Cattle Drinking?"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Senior Division : Received A Cash Award of \$75 And a Certificate
Brennen Boll, Hankinson School District , "The Observation of Growth Enhancers on the
Development and Meat Quality of Sus scrofa"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Junior Division : Received A Cash Award of \$25 And a Certificate
Abbigale Steeke, Scranton School District , "Go Away Bacteria"

Auxiliary to the North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Junior Division : Received A Cash Award of \$50 And a Certificate
Maia Jackson, Schroeder School District , "Bad to the Bone"

NDSSEF Association

Project in Botany

1 Winner: Junior Division : Received A Cash Award of \$50 And A Certificate
Lakin Mauch, Hankinson School District , "A Comparison of Tiled and Non-tiled Fields"

NDSSEF Association

Project in Botany

1 Winner: Senior Division : Received A Cash Award of \$50 And A Certificate
Grady Mauch, Hankinson School District , "The Fungicidal Impact of Detrimental Weeds on
Soybeans"

Math/Computer Science

UND Department of Computer Science

Project in the Computer Science Category

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Evan Follman, Leeds School District , "Robots and Ultrasonic Sensors"

UND Department of Computer Science

Project in the Computer Science Category

1 Winner: Senior Division : Received A Monetary Award of \$50 And a Certificate
Eileen Spilman, Mandan School District , "Equation of State Solver"

UND Odegard School of Aerospace Sciences

Project in the Computer Science Category

1 Winner: Junior Division : Received A Monetary Award of \$100 And a Certificate
Thaddeus Moore, Trinity Christian School District , "Laws Of Light"

UND Odegard School of Aerospace Sciences

Project in the Computer Science Category

1 Winner: Senior Division : Received A Monetary Award of \$150 And a Certificate
Wyatt Wilm, Hankinson School District , "An Analysis of Human Distraction"

UND Department of Mathematics

Project in the Mathematics Category

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Mya Vetter, Linton School District , "Safety Barriers"

UND Department of Mathematics

Project in the Mathematics Category

1 Winner: Senior Division : Received A Monetary Award of \$100, A \$500 Scholarship, And a Certificate
Zach Danks, New Town School District , "Soda Acid Decay"

Intel Excellence In Computer Science

Project in Computer Science Category

1 Winner: Senior Division : Received A Cash Award of \$200 And a Certificate
Sean Loken, Wishek School District , "Solar Engine Applications II"

Mu Alpha Theta

Project Involving Modern Mathematics

1 Winner: Senior Division : Received A Certificate
Mikayla Kosolofski, Hope-Page School District , "You're Hired?"

Medicine/Health

Kingsbury Outstanding Health Science Project

Project Related to Health Sciences

1 Winner: Senior Division : Received A Cash Award of \$100 And a Certificate
Courtney Estad, Valley/Edinburg School District , "Harmful Herbicides-Effects of Common Agricultural Herbicides on Human Cells"

UNDSMHS Department of Basic Sciences

Project Related to Medical or Health Sciences

1 Winner: Junior Division : Received A Monetary Award of \$100 And a Certificate
Bennett Carter, Park River School District , "Sweet Confusion"

UNDSMHS Department of Basic Sciences

Project Related to Medical or Health Sciences

1 Winner: Senior Division : Received A Monetary Award of \$100 And a Certificate
Morgan Ellingson, Valley/Edinburg School District , "The Relative Effects of Curcuminoids on HPV (positive and negative) Cervical Cancer Cells"

UND Department of Pathology

Project Related to Medical or Health Sciences

2 Winners: Junior Division : Received A Monetary Award of \$100 And a Certificate
Braden Prochnow, Hankinson School District , "The Antimicrobial Effects of Wound Care Treatments"
Isabella Froehling, Wishek School District , "Physiological Effects of Meditation: Blood Pressure"

UND Department of Pathology

Project Related to Medical or Health Sciences

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

Kelsey Guttormson, Tioga School District , "Hello My Name Is... Happy!"

Cheyenne Liedle, Tioga School District , "Oink Oink"

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

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

Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

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

Maia Jackson, Schroeder School District , "Bad to the Bone"

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

1 Winner: Junior Division : Received A Monetary Award of \$100 And a Certificate

Mary Labuhn, Ellendale School District , "Coffee Break"

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

1 Winner: Senior Division : Received A Monetary Award of \$200 And a Certificate

Betsy Asp, Hankinson School District , "Exploring Antimicrobial and Physiological Effects of Natural Remedies"

North Dakota Society for Clinical Laboratory

Project Related to Laboratory Medicine

1 Winner: Senior Division : Received A Cash Award of \$50 And a Certificate

Brennen Boll, Hankinson School District , "The Observation of Growth Enhancers on the Development and Meat Quality of Sus scrofa"

North Dakota Society for Clinical Laboratory

Project Related to Laboratory Medicine

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

Gracie Mosher, Hankinson School District , "A Comparative Analysis of Disinfectants"

North Dakota Academy of Family Physicians

Project Related to Medicine

1 Winner: Senior Division : Received A Cash Award of \$50 And a Certificate

Shelby Cyr, Valley/Edinburg School District , "The Effects of Soluble Versus Fibrillar A beta Peptide on Polyamine Synthesis in Neural Tissue- Relevance to Alzheimer's Disease"

Virginia George Inheritance Fund

Project in Field of Health Sciences

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

Paul Eapen, Our Redeemer Christian School School District , "A Novel Simple Identification Method for Urinary Stones"

Microbiology/Pharmacology

UNDSMHS Department of Basic Sciences

Project Related to Microbiology / Immunology or Infectious Disease (Priority to Microbiology Projects)

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

Olivia Byerley, Ellendale School District , "Busting Bristle Bacteria"

Gracie Mosher, Hankinson School District , "A Comparative Analysis of Disinfectants"

UNDSMHS Department of Basic Sciences

Project Related to Microbiology / Immunology or Infectious Disease (Priority to Microbiology Projects)

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

Grady Mauch, Hankinson School District , "The Fungicidal Impact of Detrimental Weeds on Soybeans"

Tayson O'Hara, Hankinson School District , "Bacteriostatic Properties of Tree Leaves"

UNDSMHS Department of Basic Sciences

Project Related to Medical or Health Sciences (Priority to Pharmacology Project)

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

Hayden Boll, Hankinson School District , "A Comparative Analysis of Various Toothpastes"

UNDSMHS Department of Basic Sciences

Project Related to Medical or Health Sciences (Priority to Pharmacology Project)

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

Tayson O'Hara, Hankinson School District , "Bacteriostatic Properties of Tree Leaves"

North Dakota Pharmacists Association

Project in Field of Pharmacology

1 Winner: Junior Division : Received A Cash Award of \$75 And a Certificate

Cati Silva, Hankinson School District , "The Effects of Flower Power"

North Dakota Pharmacists Association

Project in Field of Pharmacology

1 Winner: Senior Division : Received A Cash Award of \$100 And a Certificate

Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

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

Max Freed, Trinity Christian School District , "Ballistic About Aerogel"

Tyler Toepke-Floyd, Wishek School District , "Emission Reduction Using an Activated Carbon Supplement"

Wyatt Wilm, Hankinson School District , "An Analysis of Human Distraction"

United States Navy

Project (All Categories Considered)

3 Winners: Junior Division : Received A Medallion And a Certificate

Lakin Mauch, Hankinson School District , "A Comparison of Tiled and Non-tiled Fields"

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

Branden Skjoiten, Hankinson School District , "A Chemical and Biological Analysis of Lake Water Decontamination"

Physics/Astronomy

UND Department of Physics & Astrophysics Physics

Project in the Physics Category

1 Winner: Junior Division : Received A Monetary Award of \$100 And a Certificate

Wesley Kemp, Valley Edinburg School District , "Calculating the Crash-Comparison of Collision & Impulse for Different Materials"

UND Department of Physics & Astrophysics Physics

Project in the Physics Category

1 Winner: Senior Division : Received A Monetary Award of \$100, A \$500 Scholarship, And a Certificate

Ryan Joyce, Tioga School District , "Power Struggle"

United States Metric Association

Project Using Metric System for Measurements

5 Winners: Junior Division : Received A Certificate

Wesley Kemp, Valley Edinburg School District , "Calculating the Crash-Comparison of Collision & Impulse for Different Materials"

Jayron Mardani, Schroeder School District , "Pencil Resistors"

Kordell Loewen, Velva School District , "Mentos and Cola"

Gurturan Johal, Oak Grove Middle School School District , "What's Best to Drink"

James Fisk, Lakota School District , "A Battery That Makes Cents"

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner: Senior Division : Received A Cash Award of \$20, T-Shirt, And a Certificate
Preston Miller, Sawyer School District , "Vortexing Magnetic Fields"

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner: Junior Division : Received A Cash Award of \$20, T-Shirt, And a Certificate
Jayron Mardani, Schroeder School District , "Pencil Resistors"

Social/Behavioral Sciences

UND Department of Psychology

Project in the Psychology or Behavioral Science Category

2 Winners: Junior Division : Received A Monetary Award of \$125 And a Certificate
Chase Bader, Wishek School District , "Shaping Your Thoughts"
Bennett Carter, Park River School District , "Sweet Confusion"

UND Department of Psychology

Project in the Psychology or Behavioral Science Category

2 Winners: Senior Division : Received A Monetary Award of \$125 And a Certificate
Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine,
and Glucose on the Adenosine Circadian Cycle"
Taylor Ohlhauser, Tioga School District , "Colored Foods?"

UND College of Arts & Sciences

Project in the Fields of Social or Behavioral Science

1 Winner: Senior Division : Received A Monetary Award of \$100 And a Certificate
Kelsey Guttormson, Tioga School District , "Hello My Name Is... Happy!"

UND College of Arts & Sciences

Project in the Fields of Social or Behavioral Science

1 Winner: Junior Division : Received A Monetary Award of \$50 And a Certificate
Bennett Carter, Park River School District , "Sweet Confusion"

Virginia George Inheritance Fund

Project in the Fields of Social or Behavioral Science

1 Winner: Senior Division : Received A Monetary Award of \$125 And a Certificate
Ethan Johnson, Hope-Page School District , "Stereotype Foundations"

Virginia George Inheritance Fund

Project in the Fields of Social or Behavioral Science

1 Winner: Junior Division : Received A Monetary Award of \$75 And a Certificate
Cassidy Walth, Wishek School District , "How Does Tone Affect Memory"

Association of North Dakota Geographers

Project in the Field of Human-Environment Interaction

1 Winner: Senior Division : Received A Monetary Award of \$125 And a Certificate
Tani White, Bismarck Century School District , "The Halo Effect in High School"

American Psychological Association

Project Related to Psychology

1 Winner: Junior or Senior Division : Received A Certificate

Wyatt Limke, Berthold School District , "The Effects of Theobromine, Theophylline, Paraxanthine, and Glucose on the Adenosine Circadian Cycle"

Virginia George Inheritance Fund

Project in Field of Social Sciences

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

Selena Hobbs, Valley/Edinburg School District , "Finding Fingerprints- A Comparison of Processes and Surfaces for Obtaining Fingerprints"

Courtney Duff, Valley/Edinburg School District , "Factors that Influence Attitudes Toward Gay Males and Lesbian Females"

Sweepstakes

UND Office of Research & Economic Development

Project exhibiting Exceptional Creativity

1 Winner: Junior or Senior Division : Received A Monetary Award of \$500 And a Certificate

Kelsey Guttormson, Tioga School District , "Hello My Name Is... Happy!"

UND College of Arts & Sciences

Outstanding Math or Science Project (Female)

1 Winner (must be a female exhibitor): Senior Division : Received A Monetary Award of \$100 And a Certificate

Mya Steinwehr, Hankinson School District , "The Effects of Insecticides on Leptinotarsa decemlineata and Solanum tuberosum"

UND College of Arts & Sciences

Outstanding Math or Science Project (Female)

1 Winner (must be a female exhibitor): Junior Division : Received A Monetary Award of \$50 And a Certificate

Lakin Mauch, Hankinson School District , "A Comparison of Tiled and Non-tiled Fields"

Yale Science And Engineering Association

Project in Area of Computer Science, Engineering, Physics, or Chemistry

1 Winner: Senior Division : Received A Medallion And a Certificate

Grady Mauch, Hankinson School District , "The Fungicidal Impact of Detrimental Weeds on Soybeans"

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

Alyssa Kemp, Valley Edinburg School District , "An Evaluation of Erosion Control - Reducing Sediment in our Streams"

American Water Works Association

Project Related to Drinking Water Quality

1 Winner: Senior Division : Received A Cash Award of \$75 And a Certificate
Katie Baumgartner, Strasburg School District , "Solar vs Distilled"

North Dakota Water Environment Association

Project Related to Water Quality

1 Winner: Senior Division : Received A Cash Award of \$75 And a Plaque
Kristian Myrdal, Valley/Edinburg School District , "Does Water Temperature Change the
Detrimental effects of glyphosate?"

North Dakota Water Environment Association

Project Related to Water Quality

1 Winner: Junior Division : Received A Cash Award of \$75 And a Plaque
Abbey Simonson, Oak Grove Middle School School District , "Effects of Chemicals 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
Gage Metzen, Hankinson School District , "The Natural Decontamination of Industrial and
Agricultural Water"

Water Environment Federation

Project Related to Water Quality or Water Conditions

1 Winner: Junior or Senior Division : Received A Certificate
Zachary Fischer, Ashley School District , "What are Your Cattle Drinking?"