

2013 FINAL AWARDS

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 Friskop Family, a \$500 cash award from the University of North Dakota Vice President of Research and Economic Development, and a \$12,000 scholarship (\$3000 per year for four years) to the University of North Dakota and will advance to the ISEF in Phoenix Arizona in May 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 Dakota Vice President of Research and Economic Development, and a \$10,000 scholarship (\$2500 per year for four years) to the University of North Dakota and will advance to ISEF in Phoenix Arizona 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 from the University of North Dakota Graduate School and will advance to the ISEF in Phoenix Arizona in May and will exhibit his/her project.

Senior Division – 1st Place – Sweepstakes Winner

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

Senior Division – 2nd Place – Sweepstakes Runner-Up

Grady Mauch, Hankinson School District, The Fungicidal Attributes of Invasive Plants on Soybeans

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

Gage Metzen, Hankinson School District, Aquatic Plants: Today's Solution to River Pollution

North Dakota State Science and Engineering Fair

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 Phoenix Arizona in May and will exhibit their project.

All third and fourth place winners received a silver plaque and are alternates to the ISEF in Phoenix Arizona 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, The Evolution Of Alternative Fuel Production Derived From Invasive Eurasian Milfoil

2nd Place - Sarah Telehey, Trinity Christian School District, The Trouble With Typha Latifolia
3rd Place - Kelsey Guttormson, Tioga School District, Mind Over Matter

4th Place - Bailey Hagen, Trenton School District, Fishy Medicine

North Central Region

1st Place - Wyatt Limke, Berthold School District, Effects of Caffeine on Reaction Time

2nd Place - Mara Roteliuk, Sawyer School District, E. Coli vs. Disinfectants

3rd Place - Isaiah Bender, Sawyer School District, What Fuel Works?

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

North Dakota State Science and Engineering Fair

Northeast Region

1st Place - Devarshi Patel, Red River School District, Protective Role of Selenium Against Methyl-mercury Poisoning in House Crickets (*Acheta domesticus*)

2nd Place - Shelby Cyr, Valley/Edinburg School District, The Effects of Radiation on DNA*

3rd Place - Taylor Anderson, Lakota School District, Are You Leading Me On?

4th Place - Danielle Durand, Valley/Edinburg School District, The Effect of Increasing Radiation on the Growth of Bacteria

Southwest Central Region

1st Place - Kellie Tougas, Strasburg School District, FORENSICS: Testing for Lead

2nd Place - Matthew Schaeffbauer, Strasburg School District, Programming for Students

3rd Place - Eileen Spilman, Mandan School District, Realtime Proxy Analytical Method for Chloride in Water

4th Place - Alexander Spilman, Mandan School District, Study of TENORM Deposits in Oil Field Equipment

5th Place – Barbara Senger, Mandan School District, Lose the Ooze! How effective is 'Whizzer' on Cleaning Wrestling Mats?

(3rd Place winner is also a presenter from region at ISEF)

North Dakota State Science and Engineering Fair

Southeast Central Region

1st Place - Tyler Toepke-Floyd, Wishek School District, Emmission Reduction Through Solvent Polarity

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

3rd Place - Eva Byerley, Ellendale School District, Dig the Force

4th Place - Hunter Pinke, Wishek School District, Which Type of Glass Holds and Resists Heat Most Efficiently?

Southeast Region

1st Place - Carter Mauch, Hankinson School District, The Effects of Noxious Weeds on Navy Beans
2nd Place - Tayson O'Hara, Hankinson School District, The Antimicrobial Effect of Deciduous Tree Bark

3rd Place - Jennifer Riemann, Hankinson School District, The Contamination Levels of Ground Beef and the Preserving Abilities of Tannins

4th Place - Teri Loll, Hankinson School District, The Effects of Antacids on Acidity and the Growth of E. coli

Junior Division Sweepstakes Winners

The first place (Sweepstakes) winner received a gold state plaque and a \$100 cash award from the University of North Dakota Graduate School.

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

North Dakota State Science and Engineering Fair

Junior Division 1st Place – Sweepstakes Winner

Mya Steinwehr, Hankinson School District, The Effects of Natural Bactericides on Green Beans

Junior Division 2nd Place - Sweepstakes Runner-Up

Dale Spilman, Mandan School District, Effective Treatment of Ammonia in Wastewater

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 - Grace Dragseth, East Fairview School District, Going Green With Insulation

2nd Place - Greta Eder, Trinity Christian School District, Temperature Effects On Durum Germination

3rd Place - Dusti Seidel, Trenton School District, How's It Affected?

4th Place - Zoey Reyna, Trenton School District, Power Of The Wind

North Central Region

1st Place - Alivia Schweitzer, Berthold School District, Reaction Time: What Age is Faster?

2nd Place - Madi Kraft, Sawyer School District, Is There Light in Your Gelatin?

3rd Place - Kaylee Lybeck, Leeds School District, Effects of Medicines on Plant Growth

4th Place - Erin Jorgenson, Leeds School District, How Permanent are Permanent Markers?

North Dakota State Science and Engineering Fair

Northeast Region

1st Place - Wesley Kemp, Valley/Edinburgh School District, The Friction Factor

2nd Place - Nick Whaley, Park River School District, Erosion Explosion

3rd Place - Camryn Schall, Schroeder School District, Osteoporosis

4th Place - Sienna Smith, Schroeder, GF School District, Are You Hyped Up?

Southwest Central Region

1st Place - Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

2nd Place - Riley McLean, Bismarck Cathedral School District, Ice Please?

3rd Place - Brooklyn Vollmer, Wing School District, Cover Crop Chaos

4th Place - Mya Vetter, Linton School District, Men vs Women: A Statistical Analysis of Marketing

Southeast Central Region

1st Place - Cole Ketterling, Wishek School District, Liquid Fertilizers Effect on Corn

2nd Place - Alec Stroh, Kidder Co. Tappen School District, Making Energy with Coins

3rd Place - Kadey Holm, Ellendale School District, Wipe It all Up!

4th Place - Chase Bader, Wishek School District, How Many Numbers Can You Remember?

North Dakota State Science and Engineering Fair

Southeast Region

1st Place - Preston Degerman, Oak Grove School District, Does the Surface Affect the Splat?

2nd Place - Betsy Asp, Hankinson School District, The Antibiotic Potential of Natural Herbs

3rd Place - Martin Krump, Hankinson School District, A Comparison of Cheese Production of Swiss Dairy Goats

4th Place - Ashley Segal, Oak Grove School District, Inside a Horses Mouth

Agriculture/Soil Science

UND Graduate School

Project Related to Agriculture

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

Lakin Mauch, Hankinson School District, The Agricultural Effects of Natural Products on Wheat

UND Graduate School

Project Related to Agriculture

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

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

North Dakota State Science and Engineering Fair

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

1 Winner: Senior Division: Received A Cash Award Of \$75 And A Certificate

Carter Mauch, Hankinson School District, The Effects of Noxious Weeds on Navy Beans

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

1 Winner: Senior Division: Received A Cash Award Of \$25 And A Certificate

Grady Mauch, Hankinson School District, The Fungicidal Attributes of Invasive Plants on Soybeans

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

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

Brooklyn Vollmer, Wing School District, Cover Crop Chaos

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

1 Winner: Junior Division: Received A Cash Award Of \$25 And A Certificate

Nick Whaley, Park River School District, Erosion Explosion

Farmers Union Insurance - North Dakota

North Dakota State Science and Engineering Fair

Project Related to Agriculture

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

Paige Schmidt, Kidder Co. Tappen School District, Artificially Inseminated or Bull Bred
(2) Brenna Ketterling, Wishek School District, The Effects of Soil Type and Fertilizer on Water Quality

Farmers Union Insurance - North Dakota

Project Related to Agriculture

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

Cody Mauch, Hankinson School District, The Effects of Weed Extracts on the Growth of Glycine max

Mya Steinwehr, Hankinson School District, The Effects of Natural Bactericides on Green Beans

Air Force

United States Air Force

Project That Has Applications Useful to Air Force

4 Winners: Junior or Senior Division: Received A Laptop Backpack, A Personal Lunch Bag, A 3-In-1 Calculator/Picture Frame/Lcd Digital Clock, A Helicopter Pen, And A Certificate

Betsy Asp, Hankinson School District, The Antibiotic Potential of Natural Herbs

Lauren Cain, Oak Grove School District, Wells and Well Being

Matthew Schaeftbauer, Strasburg School District, Programming for Students

Teri Loll, Hankinson School District, The Effects of Antacids on Acidity and the Growth of E. coli

North Dakota State Science and Engineering Fair

Army

United States Army

Project in All of The ISEF Categories

1 Winner: Senior Division: Received A Certificate In A Presentation Folder A \$50 Cash Award And A Silver Medallion For Science Excellence

Devarshi Patel, Red River School District, Protective Role of Selenium Against Methyl-mercury Poisoning in House Crickets (*Acheta domesticus*)

United States Army

Project in The Engineering Categories

1 Winner: Senior Division: Received A Certificate In A Presentation Folder & A \$25 Cash Award Matthew Schaeftbauer, Strasburg School District, Programming for Students

United States Army

Project in The Environmental Science Categories

1 Winner: Senior Division: Received A Certificate In A Presentation Folder & A \$25 Cash Award Alexander Spilman, Mandan School District, Study of TENORM Deposits in Oil Field Equipment

United States Army

Project in Mathematics/Computer Categories

1 Winner: Senior Division: Received A Certificate In A Presentation Folder & A \$25 Cash Award Sean Loken, Wishek School District, Solar Engine Applications

North Dakota State Science and Engineering Fair

United States Army

Project in The Physical Science Categories

1 Winner: Senior Division: Received A Certificate In A Presentation Folder & A \$25 Cash Award Tyler Toepke-Floyd, Wishek School District, Emmission Reduction Through Solvent Polarity

Chemistry/Biochemistry

UND Department of Chemistry

Project in the Chemistry Category

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

Dale Spilman, Mandan School District, Effective Treatment of Ammonia in Wastewater

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 Gage Metzen, Hankinson School District, Aquatic Plants: Today's Solution to River Pollution

American Association for Clinical Chemistry

Project in Clinical Chemistry

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

Lucas Ensign, Dickinson School District, Quantitative Analysis of Is-butyl-propanic-phenolic Acid in Various Brands of Ibuprofen Tablets

North Dakota State Science and Engineering Fair

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 Periodic Table Refrigerator Magnet

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

NDSSEF Association

Project in Biochemistry

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

Brandon Skjoiten, Hankinson School District, A Chemical and Biological Analysis of Lake Elsie

NDSSEF Association

Project in Biochemistry

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

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

North Dakota State Science and Engineering Fair

Dentistry/Optometry

North Dakota Optometric Association

Project in Field of Optometry

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

Caitlyn Miller, Lakota School District, Does Age Affect Afterimage Persistence? Wyatt
Wilm, Hankinson School District, The Distraction Tendencies of Humans

North Dakota Optometric Association

Project in Field of Optometry

2 Winners: Junior Division: Received A Cash Award Of \$50 And A Certificate

Madi Kraft, Sawyer School District, Is There Light in Your Gelatin?

Miranda Penner, Trinity Christian School District, Light, Does It Really Increase Focus?

North Dakota Dental Association

Project Related to Dentistry

2 Winners: Junior Division: Received A Cash Award Of \$50 And A Certificate

Ashley Segal, Oak Grove School District, Inside a Horses Mouth

Shantae Bentz, Trenton School District, An Icky Sticky Situation

North Dakota State Science and Engineering Fair

North Dakota Dental Association

Project Related to Dentistry

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

Brennen Boll, Hankinson School District, The Effects of Various Toothpaste on Streptococci Bacteria

Madysen Houle, Trenton School District, Mouth Invaders

Earth/Atmospheric Sciences

UND Department of Atmospheric Sciences

Project in the Field of Atmospheric Science

1 winner: Junior or Senior Division: Received a cash award of \$75 and a certificate

Erin Haase, Ellendale School District, And the Forecast Is....

UND Department of Geography

Project in the Geography Category

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

Abbey Simonson, Oak Grove School District, What's in the Wetlands?

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 Sarah Telehey, Trinity Christian School District, The Trouble With Typha Latifolia

North Dakota State Science and Engineering Fair

UND Odegard School of Aerospace Sciences

Project Related to Aerospace Sciences

2 winners: Junior Division: Received a cash award of \$100 and a certificate

Zoey Reyna, Trenton School District, Power Of The Wind

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

UND Odegard School of Aerospace Sciences

Project Related to Aerospace Sciences

2 winners: Senior Division: Received a cash award of \$200 and a certificate

Sean Loken, Wishek School District, Solar Engine Applications

Isaiah Bender, Sawyer School District, What Fuel Works?

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

Project in the Field of Geospatial Mapping or Earth Science

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

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

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 cash award of \$50 and a certificate

Gage Metzen, Hankinson School District, Aquatic Plants: Today's Solution to River Pollution

North Dakota State Science and Engineering Fair

American Meteorological Society

Project Related to Meteorology

2 Winners: Junior or Senior Division: Received A Certificate

Erin Haase, Ellendale School District, And the Forecast Is....

Colton Lund, Sawyer School District, Balloon Temperature

Association for Women Geoscientists

Project Related to Geosciences

1 Winner (Must Be A Female Exhibitor): Junior or Senior Division: Received A Certificate And One Year Membership To The AWG North Dakota Chapter

Kelsey Gaukler, Hankinson School District, The Hydrological Assessment of Area Lakes

National Oceanic & Atmospheric Administration

Project Related to Improved Understanding of The Earth's Processes

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

Cody Mauch, Hankinson School District, The Effects of Weed Extracts on the Growth of Glycine max

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

Cody Mauch, Hankinson School District, The Effects of Weed Extracts on the Growth of Glycine max

North Dakota State Science and Engineering Fair

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

Alexander Spilman, Mandan School District, Study of TENORM Deposits in Oil Field Equipment

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

Hunter Pinke, Wishek School District, Which Type of Glass Holds and Resists Heat Most Efficiently?

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

Preston Miller, Sawyer School District, A New Source

Ottertail Power Company

Project Related to Energy or Electricity

2 Winners: Junior Division: Received A Cash Award Of \$50 And A Certificate

Alec Stroh, Kidder Co. Tappen School District, Making Energy with Coins

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

North Dakota State Science and Engineering Fair

Xcel Energy

Project Related to Energy or Electricity

3 Winners: Junior Division: Received A Cash Award Of \$25 And A Certificate

Zoey Reyna, Trenton School District, Power Of The Wind

Alec Stroh, Kidder Co. Tappen School District, Making Energy with Coins

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

Xcel Energy

Project Related to Energy or Electricity

3 Winners: Senior Division: Received A Cash Award Of \$25 And A Certificate

Jasmine Kreft, Trinity Christian School District, The Evolution Of Alternative Fuel Production Derived From Invasive Eurasian Milfoil

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

Preston Miller, Sawyer School District, A New Source

MDU Resources Group, Inc.

Project Related to Energy or Electricity

3 Winners: Senior Division: Received A Cash Award Of \$25 And A Certificate

Max Freed, Trinity Christian School District, Decomposing Energy

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

Preston Miller, Sawyer School District, A New Source

North Dakota State Science and Engineering Fair

MDU Resources Group, Inc.

Project Related to Energy or Electricity

3 Winners: Junior Division: Received A Cash Award Of \$25 And A Certificate

Spencer Green, Oak Grove School District, Crystal Radio Signal Strength

Alec Stroh, Kidder Co. Tappen School District, Making Energy with Coins

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

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

Alec Stroh, Kidder Co. Tappen School District, Making Energy with Coins

UND Department of Chemical Engineering

Project in the Chemical Engineering Category

1 winner: Senior Division: Received a cash award of \$50 and a certificate

Alexander Spilman, Mandan School District, Study of TENORM Deposits in Oil Field Equipment

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, Effective Treatment of Ammonia in Wastewater

North Dakota State Science and Engineering Fair

UND Department of Civil Engineering

Project in the Civil Engineering Category

1 winner: Senior Division: Received a cash award of \$25 and a certificate

Sarah Telehey, Trinity Christian School District, The Trouble With Typha Latifolia

UND Department of Electrical Engineering

Project in the Electrical Engineering Category

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

Rory Waliser, Lisbon School District, Magnetic Rifle!

UND Department of Electrical Engineering

Project in the Electrical Engineering Category

1 winner: Senior Division: Received a cash award of \$50 and a certificate

Preston Miller, Sawyer School District, A New Source

UND Department of Mechanical Engineering

Project in the Mechanical Engineering Category

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

Juliann Spilman, Mandan School District, Error Analysis: The Math of Mistakes

UND Department of Mechanical Engineering

Project in the Mechanical Engineering Category

1 winner: Senior Division: Received a cash award of \$50 and a certificate

Eva Byerley, Ellendale School District, Dig the Force

North Dakota State Science and Engineering Fair

UND School of Engineering & Mines

Project Related to Engineering

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

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

UND School of Engineering & Mines

Project Related to Engineering

1 Winner: Senior Division: Received a cash award of \$200 and a certificate

Jasmine Kreft, Trinity Christian School District, The Evolution Of Alternative Fuel Production Derived From Invasive Eurasian Milfoil

IEEE Red River Valley Section

Project in Electrical Engineering

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

Sean Loken, Wishek School District, Solar Engine Applications

IEEE Red River Valley Section

Project in Electrical Engineering

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

Spencer Green, Oak Grove School District, Crystal Radio Signal Strength

North Dakota State Science and Engineering Fair

ASM Materials Education Foundation

Project in Materials Engineering

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

Adam Hulm, Strasburg School District, Which Fabric Retains the Most Water?

National Society of Professional Engineers

Project in Engineering Category

1 Winner: Junior or Senior Division: Received A Certificate And A Lapel Pin

Tyler Toepke-Floyd, Wishek School District, Emmission Reduction Through Solvent Polarity

Society of Automotive Engineers

Project in Mobility Engineering

1 Winner: Junior Division: Received A Cash Award Of \$100 And A Certificate

Wesley Kemp, Valley/Edinburgh School District, The Friction Factor

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, Emmission Reduction Through Solvent Polarity

North Dakota State Science and Engineering Fair

Environmental Science

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

Gage Metzen, Hankinson School District, Aquatic Plants: Today's Solution to River Pollution

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

Zoey Reyna, Trenton School District, Power Of The Wind

Association of North Dakota Geographers

Project in the Field of Human-Environment Interaction

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

Alexander Spilman, Mandan School District, Study of TENORM Deposits in Oil Field Equipment

Ricoh Corporation

Project Related to Environmentally Friendly Businesses

1 Winner: Senior Division: Received A Certificate

Hunter Pinke, Wishek School District, Which Type of Glass Holds and Resists Heat Most Efficiently?

North Dakota State Science and Engineering Fair

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

Hunter Pinke, Wishek School District, Which Type of Glass Holds and Resists Heat Most Efficiently?

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

Abbey Simonson, Oak Grove School District, What's in the Wetlands?

NDSSEF Association

Project Related to Environmental Pollution and/or Remediation

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

Dale Spilman, Mandan School District, Effective Treatment of Ammonia in Wastewater

NDSSEF Association

Project Related to Environmental Pollution and/or Remediation

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

Tyler Toepke-Floyd, Wishek School District, Emission Reduction Through Solvent Polarity

North Dakota State Science and Engineering Fair

Human Nutrition/Nursing

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

Martin Krump, Hankinson School District, A Comparison of Cheese Production of Swiss Dairy Goats

UND Department of Nutrition & Dietetics

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 Contamination Levels of Ground Beef and the Preserving Abilities of Tannins

UND College of Nursing & Professional Disciplines

Project Related to Nursing

2 winners: Junior Division: Received a cash award of \$100 and a certificate

Dusti Seidel, Trenton School District, How's It Affected?

Camryn Schall, Schroeder School District, Osteoporosis

UND College of Nursing & Professional Disciplines

Project Related to Nursing

2 winners: Senior Division: Received a cash award of \$200 and a certificate

Gracia Eder, Trinity Christian School District, Do You Trust Your Soap For Blood Sugar Testing? Barbara Senger, Mandan School District, Lose the Ooze! How Effective is "Whizzer" on Cleaning Wrestling Mats?

North Dakota State Science and Engineering Fair

U.S. Department of Health and Human Service

Project Promoting Healthy Life Style

1 Winner: Junior or Senior Division: Received A Certificate And A Medallion Wyatt Limke, Berthold School District, Effects of Caffeine on Reaction Time

UND Department of Psychology

Project in the Psychology or Behavioral Science Category

1 winner: Junior Division: Received a cash award of \$100 and a certificate Isabella Froehling, Wishek School District, Stand Straight

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 Kate Fox, Wing School District, Which Scents Make Sense?

Humanities/Social/Behavioral Sciences

UND Department of Sociology

Project in the Social Science Category

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

Mya Vetter, Linton School District, Men vs Women: A Statistical Analysis of Marketing

North Dakota State Science and Engineering Fair

UND Department of Sociology

Project in the Social Science Category

1 winner: Senior Division: Received a cash award of \$150 and a certificate

Zachary Kringstad, Valley/Edinburg School District, The Effects of Exercise on Learning and Memory Patterns in Mice*

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

Wyatt Wilm, Hankinson School District, The Distraction Tendencies of Humans

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

Toby Zikmund, Park River School District, The Effects of Music on Hand-Eye Coordination

Virginia George Inheritance Fund

Project in the Fields of Social or Behavioral Science

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

Kelsey Guttormson, Tioga School District, Mind Over Matter

North Dakota State Science and Engineering Fair

Virginia George Inheritance Fund

Project in the Fields of Social or Behavioral Science

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

Chase Bader, Wishek School District, How Many Numbers Can You Remember?

American Psychological Association

Project Related to Psychology

1 Winner: Junior or Senior Division: Received A Certificate

Zachary Kringstad, Valley/Edinburg School District, The Effects of Exercise on Learning and Memory Patterns in Mice*

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

Grady Mauch, Hankinson School District, The Fungicidal Attributes of Invasive Plants on Soybeans

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 Usage of Polyphenol and Spinosad Compounds as Biopesticides

North Dakota State Science and Engineering Fair

Life Sciences

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 Antibiotic Potential of Natural Herbs

Sadie Schaubel, Trenton School District, Mr. Clean?

UND Department of Biochemistry and Molecular Biology

Project in the Area of Life Sciences

2 winners: Senior Division: Received a cash award of \$50 and a certificate

Grady Mauch, Hankinson School District, The Fungicidal Attributes of Invasive Plants on Soybeans
Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad Compounds as Biopesticides

UND Department of Biology

Project in the Biology Category

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

Betsy Asp, Hankinson School District, The Antibiotic Potential of Natural Herbs

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
Grady Mauch, Hankinson School District, The Fungicidal Attributes of Invasive Plants on Soybeans

North Dakota State Science and Engineering Fair

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

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

Paige Schmidt, Kidder Co. Tappen School District, Artificially Inseminated or Bull Bred
(2)

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Senior Division: Received A Cash Award Of \$75 And A Certificate

Devarshi Patel, Red River School District, Protective Role of Selenium Against Methyl-mercury Poisoning in House Crickets (*Acheta domesticus*)

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Junior Division: Received A Cash Award Of \$25 And A Certificate

Ashley Segal, Oak Grove School District, Inside a Horses Mouth

North Dakota Veterinary Medical Assn. Auxiliary

Project Related to Veterinary Medicine

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

Martin Krump, Hankinson School District, A Comparison of Cheese Production of Swiss Dairy Goats

North Dakota State Science and Engineering Fair

NDSSEF Association

Project in Botany

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

Cody Mauch, Hankinson School District, The Effects of Weed Extracts on the Growth of Glycine max

NDSSEF Association

Project in Botany

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

Gage Metzen, Hankinson School District, Aquatic Plants: Today's Solution to River Pollution

Math/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

Jackson Holm, Schroeder School District, Educational Video Games*

UND Department of Computer Science

Project in the Computer Science Category

1 winner: Senior Division: Received a cash award of \$50 and a certificate

Holly Krumm, Strasburg School District, A Mathematical Analysis of Bach's Fugues

North Dakota State Science and Engineering Fair

UND Department of Mathematics

Project in the Mathematics Category

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

Eric Spilman, Mandan School District, Impact of Sun's Angle on Solar Panels

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 Holly Krumm, Strasburg School District, A Mathematical Analysis of Bach's Fugues

Intel Excellence In Computer Science

Project in Computer Science Category

1 Winner: Senior Division: Received A Cash Award Of \$200 And A Certificate

Matthew Schaeftbauer, Strasburg School District, Programming for Students

Mu Alpha Theta

Project Involving Modern Mathematics

1 Winner: Senior Division: Received A Certificate

Eva Byerley, Ellendale School District, Dig the Force

North Dakota State Science and Engineering Fair

Medicine/Health

UND Department of Anatomy

Project Related to Medical or Health Sciences

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

Betsy Asp, Hankinson School District, The Antibiotic Potential of Natural Herbs

UND Department of Anatomy

Project Related to Medical or Health Sciences

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

Tayson O'Hara, Hankinson School District, The Antimicrobial Effect of Deciduous Tree Bark

UND Department of Pathology

Project Related to Medical or Health Sciences

2 winners: Junior Division: Received a cash award of \$100 and a certificate

Mya Steinwehr, Hankinson School District, The Effects of Natural Bactericides on Green Beans
Riley McLean, Bismarck Cathedral School District, Ice Please?

UND Department of Pathology

Project Related to Medical or Health Sciences

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

Teri Loll, Hankinson School District, The Effects of Antacids on Acidity and the Growth of E. coli
Barbara Senger, Mandan School District, Lose the Ooze! How Effective is "Whizzer" on Cleaning Wrestling Mats?

North Dakota State Science and Engineering Fair

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

Jennifer Riemann, Hankinson School District, The Contamination Levels of Ground Beef and the Preserving Abilities of Tannins

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

Lauren Cain, Oak Grove School District, Wells and Well Being

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

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

Martin Krump, Hankinson School District, A Comparison of Cheese Production of Swiss Dairy Goats

UND School of Medicine & Health Sciences

Project Related to Medical or Health Sciences

1 Winner: Senior Division: Received a cash award of \$200 and a certificate

Brennen Boll, Hankinson School District, The Effects of Various Toothpaste on Streptococci Bacteria

North Dakota State Science and Engineering Fair

North Dakota Academy of Family Physicians

Project Related to Medicine

1 Winner: Senior Division: Received A Cash Award Of \$50 And A Certificate Kelsey Guttormson, Tioga School District, Mind Over Matter

North Dakota Society for Clinical Laboratory

Project Related to Laboratory Medicine

1 Winner: Senior Division: Received A Cash Award Of \$50 And A Certificate Wyatt Limke, Berthold School District, Effects of Caffeine on Reaction Time

North Dakota Society for Clinical Laboratory

Project Related to Laboratory Medicine

1 Winner: Junior Division: Received A Cash Award Of \$50 And A Certificate Kristen Larson, Park River School District, Grooming and Heart Rate

Kingsbury Outstanding Health Science Project

Outstanding Project Related to Health Sciences

1 Winner: Junior Division: Received A Cash Award of \$50 and a certificate Betsy Asp, Hankinson School District, The Antibiotic Potential of Natural Herbs

North Dakota State Science and Engineering Fair

Microbiology/Pharmacology

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

Gracie Mosher, Hankinson School District, The Comparison of Dishwashing Liquids

Lakin Mauch, Hankinson School District, The Agricultural Effects of Natural Products on Wheat

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 Contamination Levels of Ground Beef and the Preserving Abilities of Tannins

Brennen Boll, Hankinson School District, The Effects of Various Toothpaste on Streptococci Bacteria

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

Bailey Beneda, Fordville/Lankin School District, Can Exercise Affect Your Brain?

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

Kelsey Gaukler, Hankinson School District, The Hydrological Assessment of Area Lakes

North Dakota State Science and Engineering Fair

North Dakota Pharmacists Association

Project in Field of Pharmacology

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

Sienna Smith, Schreoeder, GF School District, Are You Hyped Up?

North Dakota Pharmacists Association

Project in Field of Pharmacology

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

Tayson O'Hara, Hankinson School District, The Antimicrobial Effect of Deciduous Tree Bark

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

Dre Steinwehr, Hankinson School District, The Usage of Polyphenol and Spinosad
Compounds as Biopesticides

Grady Mauch, Hankinson School District, The Fungicidal Attributes of Invasive Plants
on Soybeans Gage Metzen, Hankinson School District, Aquatic Plants: Today's Solution
to River Pollution

North Dakota State Science and Engineering Fair

United States Navy

Project (All Categories Considered)

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

Mya Steinwehr, Hankinson School District, The Effects of Natural Bactericides on Green Beans Dale Spilman, Mandan School District, Effective Treatment of Ammonia in Wastewater

Wesley Kemp, Valley/Edinburgh School District, The Friction Factor

Physics

UND Department of Physics & Astrophysics Physics

Project in the Physics Category

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

Wesley Kemp, Valley/Edinburgh School District, The Friction Factor

UND Department of Physics & Astrophysics Physics

Project in the Physics Category

1 winner: Senior Division: Received a cash award of \$100 and a \$500 scholarship and a certificate Eva Byerley, Ellendale School District, Dig the Force

North Dakota State Science and Engineering Fair

United States Metric Association

Project Using Metric System for Measurements

5 Winners: Junior Division: Received A Certificate

Kerstin Grubb, Tioga School District, Milk Or Plastic?

Wesley Kemp, Valley/Edinburgh School District, The Friction Factor

Jordan Saxerud, Lisbon School District, Stifling Surges

Rory Waliser, Lisbon School District, Magnetic Rifle!

Preston Degerman, Oak Grove School District, Does the Surface Affect the Splat?

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner: Senior Division: Received A Cash Award Of \$25 And A Certificate

Tony Krautbauer, Hankinson School District, The Effects of Flour on Combustion and Shelf Life of Bread

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner: Junior Division: Received A Cash Award Of \$25 And A Certificate

Preston Degerman, Oak Grove School District, Does the Surface Affect the Splat?

North Dakota State Science and Engineering Fair

Sweepstakes

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

Jasmine Kreft, Trinity Christian School District, The Evolution Of Alternative Fuel Production Derived From Invasive Eurasian Milfoil

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

Mya Steinwehr, Hankinson School District, The Effects of Natural Bactericides on Green Beans

UND Office of Research & Economic Development

Project exhibiting Exceptional Creativity

1 winner: Junior or Senior Division: Received a \$500 gift certificate to the UND Bookstore and a certificate

Bailey Hagen, Trenton School District, Fishy Medicine

North Dakota State Science and Engineering Fair

Yale Science and Engineering Association

Project in Computer Science, Engineering, Physics, or Chemistry

1 Winner: 11Th Grader Division: Received A Medallion And A Certificate

Tyler Toepke-Floyd, Wishek School District, Emmission Reduction Through Solvent Polarity

Water Quality

Water Environment Federation

Project Related to Water Quality or Water Conditions

1 Winner: Junior or Senior Division: Received A Certificate

Jasmine Kreft, Trinity Christian School District, The Evolution Of Alternative Fuel Production Derived From Invasive Eurasian Milfoil

American Water Works Association

Project Related to Drinking Water Quality

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

Brandon Skjoiten, Hankinson School District, A Chemical and Biological Analysis of Lake Elsie

North Dakota State Science and Engineering Fair

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 Hydrological Assessment of Area Lakes

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, Aquatic Plants: Today's Solution to River Pollution

North Dakota Water Environment Association

Project Related to Water Quality

1 Winner: Junior Division: Received A Cash Award Of \$75 And A Plaque

Dale Spilman, Mandan School District, Effective Treatment of Ammonia in Wastewater

North Dakota Rural Water Systems Association

Project Related to Water Quality

1 Winner: Senior Division: Received A Cash Award Of \$100 And A Plaque

Brenna Ketterling, Wishek School District, The Effects of Soil Type and Fertilizer on Water Quality