2016 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 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 Phoenix Arizona 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 Phoenix Arizona 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 Phoenix Arizona and will exhibit his/her project.

Senior Division – 1st Place – Sweepstakes Winner

Madison Goetzfridt, Mandan School District, "The Eye of the Beholder: Creating a New Prototype of a Medical Infusion Pump"

Senior Division – 2nd Place – Sweepstakes Runner-Up

Riley McLean, St Mary's-Bismarck School District, "Can the Metastatic Potential of Cancer be Predicted?"

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

Josianna Prochnow, Hankinson School District, "A Bacterial Analysis of Hand Sanitization Products"

Senior Division Place Winners

Projects that are selected as finalists received a gold plaque and a hooded sweatshirt and will advance to the ISEF in Phoenix Arizona in May and will exhibit their project.

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

Northwest Region

1st Finalist: Nokomis Poitra, Trenton School District, "Survey Says"

2nd Finalist: Carson Hatter, Trenton School District, "The Energy In Trash"

3rd Finalist: Reese Nielson, Trenton School District, "Critters In Your Cooler"

1st Alternate: Kimberlie Gardea, Trenton School District, "Synthetic or Natural?"

2nd Alternate: Zachary Luallen, Tioga School District, "One Magnet To Bring Them All"

North Central Region

1st Finalist: Roman Knudsvig, Berthold School District, "The Effects of Caffeine "

1st Alternate: Lanie Kunz, Berthold School District, "Diet and Attention Deficit Disorder"

2nd Alternate: Declan Ritterman, Leeds School District, "Exercise Your Brain"

Northeast Region

1st Finalist: Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

1st Alternate: Wesley Kemp, Valley-Edinburg School District, "Shake, Rattle and Wave - How Seismic Waves Affect Structures"

2nd Alternate: John Heuchert, St. Thomas School District, "Fruit Power"

Southwest Central Region

1st Finalist: Eric Spilman, Mandan School District, "Capturing Waste Energy from ND Oil Field Flares" 2nd Finalist: Dale Spilman, Mandan School District, "Wind Tunnel Demonstration of Airfoil Drag Reduction"

1st Alternate: Savanah Canen, Hebron School District, "An Exploration of Dactylography: How Many Ridge Characteristics Do Family Members Share?"

2nd Alternate: Juliann Spilman, Mandan School District, "Shielding Effect of Particulates on UV Disinfection of Greywater"

Southeast Central Region

1st Finalist: Paige Schmidt, Kidder Co. Tappen School District, "The Identification of Parasites in Bovine Feces"

2nd Finalist: Katie Schmidt, Ashley School District, "Where to Go?"

1st Alternate: Cassidy Walth, Wishek School District, "The Chromatic Adaption Project"

2nd Alternate: Desa Sand, Ellendale School District, "Saving the World One Ranch at a Time"

Southeast Region

1st Finalist: Braden Prochnow, Hankinson School District, "The Antibacterial Potential of Conifer Chemical Extracts"

1st Alternate: Benjamin Krump, Hankinson School District, "Acomparison of Natural Fertilizers with Added Decomposers"

2nd Alternate: Martin Krump, Hankinson School District, "The Effects of Pasteurization on Capra hircus Milk"

Junior Division Sweepstakes Winners

The first place (Sweepstakes) winner received a gold state plaque, a \$125 cash award from the ND IDeA Network of Biomedical Research Excellence 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 \$75 cash award from the ND IDeA Network of Biomedical Research Excellence.

Junior Division 1st Place - Sweepstakes Winner

Isabelle Chambers, Fargo Homeschool School District, "Improving Vision in Pseudophakic Uvetis Patient vis Photoactivation"

Junior Division 2nd Place - Sweepstakes Runner-Up

Broden Diederich, Schroeder School District, "Programmed To Go"

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: Elijah Nible, Trinity Chrisitan School District, "Fire To Wire"

2nd Place: Ethan Decker, Trinity Christian School District, "Oil Absorbents"

3rd Place: Andra Smith, Trinity Christian School District, "Stop In The Name Of Lenz"

4th Place: Josh Watson, Trinity Christian School District, "Creative Change"

North Central Region

1st Place: Malorie Sabo, Leeds School District, "The Substance that is Most Efficient in a Hydraulic System is..."

2nd Place: Zoe Lauckner, Leeds School District, "How to Make Tough Cuts of Meat Tender"

3rd Place: John Fischer, Leeds School District, "Which Parachutes Fall Slowest"

Northeast Region

1st Place: Zoe Jiran, Schroeder School District, "BPM vs BPM"

2nd Place: Ryan Linstad, Lakota School District, "Do Plants and Soil Types Alter the Effect of Erosion?" 3rd Place: Mike Erickson, Schroeder School District, "The Need for Speed"

4th Place: Christie Stayman, Schroeder School District, "Fit to Kill"

Southwest Central Region

1st Place: Pamela Nash, Strasburg School District, "Do Video Games Help Your Brain?"

2nd Place: Daniel Schumacher, Linton School District, "Brain Teaser"

3rd Place: Keagan Marshall, Wing School District, "To Till or Not to Till"

4th Place: Alex Vander Vorste, Strasburg School District, "Fungicides or NA"

Southeast Central Region

1st Place: Bradyn Lachenmeier, Kidder Co. Tappen School District, "The Heat Content of Wood"

2nd Place: Madelyn Schmidt, Kidder Co. Tappen School District, "The Effect of Eye-Hand Dominance on Free Throw Percentages"

3rd Place: Calli Hauck, Ellendale School District, "Dewormer Deluxe"

4th Place: Brandon Hahne, Ellendale School District, "Artesian Well vs. Surface Well Quality"

Southeast Region

1st Place: Dylan Benson, Hankinson School District, "A Microbiological Analysis of Citrus"

2nd Place: Mandy Saxerud, Lisbon School District, "Candle Sense"

3rd Place Maezy Myers, Griggs County Central School District, "What's Growing on Your Smart Phone?"

4th Place: Abby Post, Hankinson School District, "The Impact of Marigolds on Garden Vegetables"

Agriculture/Soil Science

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

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

Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

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

Tyler Blegen, Leeds School District, "Can Erosion be Stopped"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

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

Hannah Fischer, Wing School District, "Soil Stabilizer"

North Dakota Soil Conservation District/Auxiliary

Project Related to Soil Conservation

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

Ethan Decker, Trinity Christian School District, "Oil Absorbents"

Farmers Union Insurance - North Dakota

Project Related to Agriculture

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

Brendin Monge, Belfied School District, "Horse Hoof Growth"

Benjamin Krump, Hankinson School District, "Acomparison of Natural Fertilizers with Added Decomposers"

Farmers Union Insurance - North Dakota

Project Related to Agriculture

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

Abby Post, Hankinson School District, "The Impact of Marigolds on Garden Vegetables"

Calli Hauck, Ellendale School District, "Dewormer Deluxe"

Chemistry/Biochemistry

UND Department of Chemistry

Project in Chemistry

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

Brody LaRoque, Trenton School District, "Pollution Conclusion"

UND Department of Chemistry

Project in Chemistry

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

Braden Prochnow, Hankinson School District, "The Antibacterial Potential of Conifer

Chemical Extracts"

American Association for Clinical Chemistry

Project in Clinical Chemistry

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

Alexis Keller, Mandan School District, "Sunscreen Alternative"

American Chemical Society-Red River Valley Section

Project in Field of Chemistry

1 Winner: Junior or Senior Division: A \$100 Barnes and Noble Gift Card, A 5-in-1 Pen,

And a Certificate

Kiana Schatz, Hebron School District, "Does Coffee Stain Teeth?"

NDSSEF Association

Project in Biochemistry

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

Dylan Benson, Hankinson School District, "A Microbiological Analysis of Citrus"

Abby Post, Hankinson School District, "The Impact of Marigolds on Garden Vegetables"

NDSSEF Association

Project in Biochemistry

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

Riley McLean, St Mary's-Bismarck School District, "Can the Metastatic Potential of

Cancer be Predicted?"

Dentistry/Optometry

North Dakota Dental Foundation

Project Related to Dentistry

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

Kyrsten Sherlock, Griggs County Central School District, "Do Foods Cause bacteria in Your Mouth to Grow?"

Jade Schothauer, East Fairview School District, "Rethink What You Drink"

North Dakota Dental Foundation

Project Related to Dentistry

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

Kiana Schatz, Hebron School District, "Does Coffee Stain Teeth?"

Mya Vetter, Linton School District, "An Anaylsis of ND Medicinal Plants as Used by Native Americans"

NDSSEF Association

Project in Field of Vision and Eye Care

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

Cassidy Walth, Wishek School District, "The Chromatic Adaption Project"

NDSSEF Association

Project in Field of Vision and Eye Care

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

Heather Schwartz, Schroeder School District, "Colors Help"

Earth/Atmospheric Sciences

UND Department of Atmospheric Sciences

Project in Atmospheric Sciences

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

Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect WAAG & GPS"

UND Department of Geography

Project in Geography

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

Paul Hardy, East Fairview School District, "Ice Ice Baby"

UND Department of Geography

Project in Geography

1 winner: Senior Division: Monetary award of \$50 and a \$100 scholarship for Geography Major Student and a certificate

Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

UND Harold Hamm School of Geology & Geological Engineering

Project in Geology/Geological Engineering

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

Elijah Nible, Trinity Chrisitan School District, "Fire To Wire"

UND Harold Hamm School of Geology & Geological Engineering

Project in Geology/Geological Engineering

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

Eric Spilman, Mandan School District, "Capturing Waste Energy from ND Oil Field Flares"

American Society of Photogrammetry and Remote Sensing, Heartland Region

Project in the Field of Geospatial Mapping or Earth Science

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

Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect WAAG & GPS"

North Dakota Geological Society

Project in Field of Geology or Earth Science

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

Ryan Linstad, Lakota School District, "Do Plants and Soil Types Alter the Effect of Erosion?"

North Dakota Geological Society

Project in Field of Geology or Earth Science

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

Desa Sand, Ellendale School District, "Saving the World One Ranch at a Time"

American Meteorological Society

Project Related to Meteorology

2 Winners: Junior or Senior Division: A Certificate

Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect WAAG & GPS" Paul Hardy, East Fairview School District, "Ice Ice Baby"

Association For Women Geoscientists

Project Related to Geosciences

1 Winner (Must Be A Female Exhibitor): Junior or Senior Division: A Certificate Bailey Hulm, Linton School District, "Volcanic Ash Concrete"

National Oceanic & Atmospheric Administration

Project Related to Improved Understanding of the Earth's Processes

1 Winner: Junior Division: A Certificate And A Medallion

Hannah Fischer, Wing School District, "Soil Stabilizer"

NASA Earth System Science Award

Project Related to Earth's Interconnected System

1 Winner: Junior or Senior Division: A Certificate

Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect WAAG & GPS"

Energy/Power/Electricity

UND Energy and Environmental Research Center

Project in Energy, Power, and Electricity

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

Sean Loken, Wishek School District, "Solar Engine Applications IV"

Otter Tail Power Company

Project Related to Energy or Electricity

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

Rodrigo Martinez Jr., Kidder Co. Tappen School District, "The Effect of Mass and

Charge Pressure on Projectile Range Part 2"

John Heuchert, St. Thomas School District, "Fruit Power"

Evan Follman, Leeds School District, "Solar Mirrors"

Otter Tail Power Company

Project Related to Energy or Electricity

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

Elijah Nible, Trinity Chrisitan School District, "Fire To Wire"

Brandon Morten, Lakota School District, "Which 6 Volt Battery Provides The Best

Electrical Current to Power a Motor?"

Xcel Energy

Project Related to Energy or Electricity

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

David Steinke, Hope-Page School District, "LED Lights to the Test"

Ella Farida, Glen Ullin School District, "Batteries Made Cents"

Adam Swartz, Schroeder School District, "Tap It!"

Xcel Energy

Project Related to Energy or Electricity

3 Winners: Senior Division: A Cash Award of \$25 And a Certificate

Alec Stroh, Kidder Co. Tappen School District, "Diesel and Gas Combo"

Nathan Elverud, Leeds School District, "Best Fan Setup"

Carson Hatter, Trenton School District, "The Energy In Trash"

Engineering

UND School of Engineering & Mines

Project in Engineering

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

Mandy Saxerud, Lisbon School District, "Candle Sense"

UND School of Engineering & Mines

Project in Engineering

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

Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

UND Department of Petroleum Engineering

Project in Engineering

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

Eric Spilman, Mandan School District, "Capturing Waste Energy from ND Oil Field Flares"

UND College of Engineering & Mines

Project in Engineering (Female)

1 Winner: Senior Division: A \$500 scholarship for female student in Engineering and a certificate Madison Goetzfridt, Mandan School District, "The Eye of the Beholder: Creating a New Prototype of a Medical Infusion Pump"

Society of Automotive Engineers

Project in Mobility Engineering

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

Broden Diederich, Schroeder School District, "Programmed To Go"

Society of Automotive Engineers

Project in Mobility Engineering

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

Dale Spilman, Mandan School District, "Wind Tunnel Demonstration of Airfoil Drag

Reduction"

ASM Materials Education Foundation

Project in Materials Engineering

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

Rio Falcon, Trenton School District, "Drink It & Wear It"

Engineering (Chemical)

UND Department of Chemical Engineering

Project in Chemical Engineering

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

Makenna Binder, Kidder Co. Tappen School District, "Heat Content in Foods"

UND Department of Chemical Engineering

Project in Chemical Engineering

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

Adam Fischer, Leeds School District, "Water Purity"

Engineering (Electrical)

Dr. Richard Schultz Award - UND Department of Electrical Engineering

Project in Electrical Engineering

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

Adam Swartz, Schroeder School District, "Tap It!"

Dr. Richard Schultz Award - UND Department of Electrical Engineering

Project in Electrical Engineering

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

Sean Loken, Wishek School District, "Solar Engine Applications IV"

Engineering (Mechanical)

UND Department of Mechanical Engineering

Project in Mechanical Engineering

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

John Fischer, Leeds School District, "Which Parachutes Fall Slowest"

UND Department of Mechanical Engineering

Project in Mechanical Engineering

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

Madison Goetzfridt, Mandan School District, "The Eye of the Beholder: Creating a New

Prototype of a Medical Infusion Pump"

Environmental Science

Coalition For Conservation & Environmental Education

Outstanding Environmental Project

1 Winner: Senior Division: A Cash Award of \$50, A Large Purple Rosette Ribbon, And a Certificate Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

Coalition For Conservation & Environmental Education

Outstanding Environmental Project

1 Winner: Junior Division: A Cash Award of \$50, A Large Purple Rosette Ribbon, And a Certificate Abby Post, Hankinson School District, "The Impact of Marigolds on Garden Vegetables"

Ricoh Corporation

Project Related to Environmentally Friendly Businesses

1 Winner: Senior Division: A Certificate

Desa Sand, Ellendale School District, "Saving the World One Ranch at a Time"

NDSSEF Association

Project Related to Environmental Remediation

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

Brody LaRoque, Trenton School District, "Pollution Conclusion"

NDSSEF Association

Project Related to Environmental Remediation

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

Tyler Blegen, Leeds School District, "Can Erosion be Stopped"

UND School of Engineering & Mines

Project in Energy/Environmental Science

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

Eric Spilman, Mandan School District, "Capturing Waste Energy from ND Oil Field

Flares"

UND School of Engineering & Mines

Project in Energy/Environmental Science

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

Tavon Stadler, Griggs County Central School District, "How Wind Turbine Blade Size

Affects the Amount of Energy Produced"

Human Nutrition/Nursing

UND Department of Nutrition & Dietetics

Project in Nutrition and Food Science

1 winner: Junior Division: Monetary award of \$25 and a certificate

Zoe Lauckner, Leeds School District, "How to Make Tough Cuts of Meat Tender"

UND Department of Nutrition & Dietetics

Project in Nutrition and Food Science

1 winner: Senior Division: Monetary award of \$50 and a \$250 scholarship and a certificate Martin Krump, Hankinson School District, "The Effects of Pasteurization on Capra hircus Milk"

Hot Cakes Café Excellence in Science Award

Project That Has Emphasis on Food Quality or Food Safety

1 Winner: Junior or Senior Division: A Cash Award of \$25 And a Certificate

Reese Nielson, Trenton School District, "Critters In Your Cooler"

ISEF Alumni

ISEF Alumni

Project as Determined by ISEF Judges

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

Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

ISEF Alumni

Project as Determined by ISEF Judges

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

Sean Loken, Wishek School District, "Solar Engine Applications IV"

Life Sciences

UND Department of Biomedical Sciences

Project in Area of Life Sciences (Priority to Molecular Biology Project)

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

Maezy Myers, Griggs County Central School District, "What's Growing on Your Smart Phone?"

Dylan Benson, Hankinson School District, "A Microbiological Analysis of Citrus"

UND Department of Biomedical Sciences

Project in Area of Life Sciences (Priority to Molecular Biology Project)

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

Martin Krump, Hankinson School District, "The Effects of Pasteurization on Capra hircus Milk"

Mya Vetter, Linton School District, "An Anaylsis of ND Medicinal Plants as Used by Native Americans"

UND Department of Biology

Project in Biology

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

Colton Beeson, Hankinson School District, "Effects of Unique Growth Stimulants on Garden Peas"

UND Department of Biology

Project in Biology

1 winner: Senior Division: Monetary award of \$100 and a \$300 scholarship and a certificate

Chase Bladow, Hankinson School District, "The Production of a Natural Potato Insecticide Derived from Capsaicin"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

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

Brendin Monge, Belfied School District, "Horse Hoof Growth"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

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

Paige Schmidt, Kidder Co. Tappen School District, "The Identification of Parasites in Bovine Feces"

North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

1 Winner: Junior Division: A Cash Award of \$25 And a Certificate

Afton Shypkoski, Belfied School District, "Catalase Within an Animal"

Auxiliary to the North Dakota Veterinary Medical Association

Project Related to Veterinary Medicine

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

Calli Hauck, Ellendale School District, "Dewormer Deluxe"

NDSSEF Association

Project in Botany

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

Alex Vander Vorste, Strasburg School District, "Fungicides or NA"

NDSSEF Association

Project in Botany

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

Jacob Hanson, Berthold School District, "The Practicality of Hydroponics"

Mathematics/Computer Science

UND Department of Computer Science

Project in Computer Science

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

Broden Diederich, Schroeder School District, "Programmed To Go"

UND Department of Computer Science

Project in Computer Science

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

Evan Follman, Leeds School District, "Solar Mirrors"

UND Department of Mathematics

Project in Mathematics

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

Mike Erickson, Schroeder School District, "The Need for Speed"

UND Department of Mathematics

Project in Mathematics

1 winner: Senior Division: Monetary award of \$100 and a \$500 scholarship and a certificate Riley McLean, St Mary's-Bismarck School District, "Can the Metastatic Potential of Cancer be Predicted?"

Intel Excellence In Computer Science

Project in Computer Science Category

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

Sean Loken, Wishek School District, "Solar Engine Applications IV"

Mu Alpha Theta

Project Involving Modern Mathematics

1 Winner: Senior Division: A Certificate

Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect

WAAG & GPS"

Medicine/Health

UND School of Medicine & Health Sciences

Project in Medical or Health Sciences

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

Riley McLean, St Mary's-Bismarck School District, "Can the Metastatic Potential of Cancer be Predicted?"

UND School of Medicine & Health Sciences

Project in Medical or Health Sciences

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

Megan Jacobson, Schroeder School District, "Brain Fire and Brain Freeze"

UND School of Medicine & Health Sciences

Project in Medical or Health Sciences

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

Madelyn Schmidt, Kidder Co. Tappen School District, "The Effect of Eye-Hand Dominance on Free Throw Percentages"

UND Department of Biomedical Sciences

Project in Medical or Health Sciences

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

Megan Kvernum, Trinity Christian School District, "Comparing Humalog & Novolog"

UND Department of Biomedical Sciences

Project in Medical or Health Sciences

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

Alexis Keller, Mandan School District, "Sunscreen Alternative"

UND Pathology Department & ND IDeA Network of Biomedical Research Excellence

Project in Medical or Health Sciences

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

Chase Bladow, Hankinson School District, "The Production of a Natural Potato

Insecticide Derived from Capsaicin"

UND Pathology Department & ND IDeA Network of Biomedical Research Excellence

Project in Medical or Health Sciences

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

Kasi Holm, Ellendale School District, "Probiotic"

North Dakota Academy of Family Physicians

Project Related to Medicine

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

Madison Goetzfridt, Mandan School District, "The Eye of the Beholder: Creating a New

Prototype of a Medical Infusion Pump"

North Dakota Society for Clinical Laboratory

Project Related to Laboratory Medicine

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

Martin Krump, Hankinson School District, "The Effects of Pasteurization on Capra hircus Milk" Katelyn Nelsen, Leeds School District, "Slay the Strep"

while Ratery in Relocat, Local Control District, City the Ottop

Kimberlie Gardea, Trenton School District, "Synthetic or Natural?"

North Dakota Society for Clinical Laboratory

Project Related to Laboratory Medicine

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

Maezy Myers, Griggs County Central School District, "What's Growing on Your Smart Phone?"

Dylan Benson, Hankinson School District, "A Microbiological Analysis of Citrus"

Tucker Schiele, Wing School District, "The Electrolyte Challenge"

Microbiology/Pharmacology

UND Department of Biomedical Sciences

Project in Area of Life Sciences (Priority to Microbiology Project)

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

Dylan Benson, Hankinson School District, "A Microbiological Analysis of Citrus"

Maezy Myers, Griggs County Central School District, "What's Growing on Your Smart Phone?"

UND Department of Biomedical Sciences

Project in Area of Life Sciences (Priority to Microbiology Project)

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

Riley McLean, St Mary's-Bismarck School District, "Can the Metastatic Potential of Cancer be Predicted?"

Brock Theede, Hankinson School District, "The Production of a Natural Fungicide Derived from Family Lamiaceae"

UND Department of Biomedical Sciences

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

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

Dylan Benson, Hankinson School District, "A Microbiological Analysis of Citrus"

UND Department of Biomedical Sciences

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

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

Riley McLean, St Mary's-Bismarck School District, "Can the Metastatic Potential of Cancer be Predicted?"

North Dakota Pharmacists Association

Project in Field of Pharmacology

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

Maezy Myers, Griggs County Central School District, "What's Growing on Your Smart Phone?"

North Dakota Pharmacists Association

Project in Field of Pharmacology

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

Josianna Prochnow, Hankinson School District, "A Bacterial Analysis of Hand

Sanitization Products"

Navy

Navy

Project (All Categories Considered)

3 Winners: Senior Division: An Educational Recognition Award Valued at \$75, A Medallion, And a Certificate

Rodrigo Martinez Jr., Kidder Co. Tappen School District, "The Effect of Mass and Charge Pressure on Projectile Range Part 2"

Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect WAAG & GPS" Alec Stroh, Kidder Co. Tappen School District, "Diesel and Gas Combo"

Navy

Project (All Categories Considered)

3 Winners: Junior Division: A Medallion And a Certificate

Tucker Schiele, Wing School District, "The Electrolyte Challenge"

John Fischer, Leeds School District, "Which Parachutes Fall Slowest"

Madelyn Schmidt, Kidder Co. Tappen School District, "The Effect of Eye-Hand Dominance on Free Throw Percentages"

North Dakota Army National Guard

North Dakota Army National Guard

Project That Has Applications Useful to North Dakota Army National Guard

1 Winner: Junior Division: A Duffle Bag With Assortment of Items

Isabelle Chambers, Fargo Homeschool School District, "Improving Vision in Pseudophakic Uvetis Patient vis Photoactivation"

North Dakota Army National Guard

Project That Has Applications Useful to North Dakota Army National Guard

1 Winner: Junior Division: A Backpack With Assortment of Items

Elijah Nible, Trinity Chrisitan School District, "Fire To Wire"

North Dakota Army National Guard

Project That Has Applications Useful to North Dakota Army National Guard

1 Winner: Senior Division: A Duffle Bag With Assortment of Items

Branden Skjoiten, Hankinson School District, "A chemical and Plant Analysis of Lake Elsier"

North Dakota Army National Guard

Project That Has Applications Useful to North Dakota Army National Guard

1 Winner: Senior Division: A Backpack With Assortment of Items

Joshua Clark, Mandan School District, "Affect of Music on an Athlete's Efficiency"

United States Air Force

Air Force

Project That Has Applications Useful to Air Force

4 Winners: Junior or Senior Division: An Over-the-Shoulder Sling Pack, Power Bank Charger, Dog Tag USB Flash Memory Drive, a Dual USB Car Charger, And a Certificate

Rodrigo Martinez Jr., Kidder Co. Tappen School District, "The Effect of Mass and Charge Pressure on Projectile Range Part 2"

Dale Spilman, Mandan School District, "Wind Tunnel Demonstration of Airfoil Drag Reduction" Tavon Stadler, Griggs County Central School District, "How Wind Turbine Blade Size Affects the Amount of Energy Produced"

Roman Knudsvig, Berthold School District, "The Effects of Caffeine"

Physics/Astronomy

UND Department of Physics & Astrophysics

Project in Physics & Astronomy

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

Andra Smith, Trinity Christian School District, "Stop In The Name Of Lenz"

UND Department of Physics & Astrophysics

Project in Physics & Astronomy

1 winner: Senior Division: Monetary award of \$100 and a \$500 scholarship and a certificate

Zachary Luallen, Tioga School District, "One Magnet To Bring Them All"

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner: Senior Division: A Cash Award of \$20, T-Shirt, And a Certificate
Caleb Page, Trinity Christian School District, "How Geomagnetisium Storms Affect
WAAG & GPS"

North Dakota Physics Teachers

Project in Area of Physics or Physical Science

1 Winner: Junior Division: A Cash Award of \$20, T-Shirt, And a Certificate

Maximilian Reichert, Schroeder School District, "Stealing the Hope Diamond"

United States Metric Association

Project Using Metric System for Measurements

5 Winners: Junior or Senior Division: A Certificate

Rodrigo Martinez Jr., Kidder Co. Tappen School District, "The Effect of Mass and Charge Pressure on Projectile Range Part 2"

Mandy Saxerud, Lisbon School District, "Candle Sense"

Malorie Sabo, Leeds School District, "The Substance that is Most Efficient in a Hydraulic System is..." Mike Erickson, Schroeder School District, "The Need for Speed" David Steinke, Hope-Page School District, "LED Lights to the Test"

Social/Behavioral Sciences

UND Department of Psychology

Project in Psychology or Behavioral Science

2 winners: Junior Division: Monetary award of \$100 each and a certificate

Heather Schwartz, Schroeder School District, "Colors Help"

Jayden Sherrard, Griggs County Central School District, "Does Practice Make Perfect?"

UND Department of Psychology

Project in Psychology or Behavioral Science

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

Chantel Kessel, Belfield School District, "Natural or Nothing"

Kellan Benson, Hankinson School District, "Communication Methods' Influence on Reaction Speed"

Virginia George Inheritance Fund

Project in Social or Behavioral Science

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

Cassidy Walth, Wishek School District, "The Chromatic Adaption Project"

Virginia George Inheritance Fund

Project in Social or Behavioral Science

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

Kyrsten Sherlock, Griggs County Central School District, "Do Foods Cause bacteria in Your Mouth to Grow?"

Association of North Dakota Geographers

Project in Human-Environment Interaction

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

Erin Jorgenson, Leeds School District, "Does Weather Affect your Mood"

American Psychological Association

Project Related to Psychology

1 Winner: Junior or Senior Division: A Certificate

Bryce Goettle, Ashley School District, "Rotation Perception"

Sweepstakes

Yale Science And Engineering Association

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

1 Winner: Senior Division: A Medallion And A Certificate

Eric Spilman, Mandan School District, "Capturing Waste Energy from ND Oil Field Flares"

Water Quality

American Water Works Association

Project Related to Drinking Water Quality

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

Brandon Hahne, Ellendale School District, "Artesian Well vs. Surface Well Quality"

American Water Works Association

Project Related to Drinking Water Quality

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

Branden Skjoiten, Hankinson School District, "A chemical and Plant Analysis of Lake Elsier"

North Dakota Water Environment Association

Project Related to Water Quality

1 Winner: Senior Division: A Cash Award of \$75 And a Plaque

Juliann Spilman, Mandan School District, "Shielding Effect of Particulates on UV Disinfection of Greywater"

North Dakota Water Environment Association

Project Related to Water Quality

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

Keagan Marshall, Wing School District, "To Till or Not to Till"

North Dakota Rural Water Systems Association

Project Related to Water Quality

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

Alyssa Kemp, Cavalier School District, "Dynamic River Dikes - A Study of the Effects of Channel Grade on Agricultural Dikes"

Water Environment Federation

Project Related to Water Quality or Water Conditions

1 Winner: Junior or Senior Division: A Certificate

Desa Sand, Ellendale School District, "Saving the World One Ranch at a Time"