

2016 – Final Awards – ND State Science & 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 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 Christian 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, Belfield 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"

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"