

2018 Hoosier Science and Engineering Fair Awards Report

For additional information, contact Glen Cook gcook@sefi.org

Awardee **Logan Hartsough** Project # 101

Grade 4

School McKenney-Harrison Elem School

Title Should I Drink That?

Award Name/Description

Award for Excellence in the Use of the Metric System

Award Certificate

Sponsored By US Metric Association

Awardee **Alayna Jacobus** Project # 103

Grade 4

School Van Buren Elementary School

Title Penny Wars: The Cleanest Penny

Award Name/Description

Award for Best Use of Statistics - 3rd Place Junior Division

Certificate

Sponsored By Central Indiana Chapter of the American Statistical Association

Awardee **Benjamin Alcantara** Project # 105

Grade 4

School Carmel Elementary School

Title Surface Tension Comprehension

Award Name/Description

Best Project for work related to Tribology

Certificate of Merit and \$100

Sponsored By The Society of Tribologist and Lubrication Engineers (STLE)

Awardee **Benjamin Alcantara** Project # 105

Grade 4

School Carmel Elementary School

Title Surface Tension Comprehension

Award Name/Description

4TH GRADE 2ND PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Aydin Kurama** Project # 106

Grade 4

School Northpoint Elementary School

Title What is the Best Insulator?

Award Name/Description

Outstanding Achievement in a Weather Related Project

Award Certificate

Sponsored By American Meteorological Society

Awardee **Aydin Kurama** Project # 106

Grade 4

School Northpoint Elementary School

Title What is the Best Insulator?

Award Name/Description

4TH GRADE 1ST PLACE

PLAQUE AND \$150

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Nia Gerwels**

Project # 107

Grade 4

School Mary Frank Elementary School

Title Which Sorbent is Best for Cleaning Oil Spills in the Water?

Award Name/Description

4TH GRADE 3RD PLACE

PLAQUE AND \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Katherine Fancher**

Project # 108

Grade 4

School Tri-State Region Home Schools

Title Don't Let Rust Slow You Down

Award Name/Description

Most Outstanding Exhibit in Materials Science

Award Certificate

Sponsored By ASM Materials Education Foundation

Awardee **Katherine Fancher**

Project # 108

Grade 4

School Tri-State Region Home Schools

Title Don't Let Rust Slow You Down

Award Name/Description

Best Project for work related to Tribology

Certificate of Merit and \$100

Sponsored By The Society of Tribologist and Lubrication Engineers (STLE)

Awardee **Andrew Thum** Project # 109

Grade 4

School Haverhill Elementary School

Title Opinions on Bugs

Award Name/Description

Taking the Pulse of the Planet Award

Award Certificate

Sponsored By National Oceanic and Atmospheric Administration

Awardee **Rana Amouri** Project # 112

Grade 5

School Horizon Elementary School

Title Growing Yeast With Sugar Substitutes

Award Name/Description

IUPUI Chem Club Award

Certificate \$50 and a book

Sponsored By IUPUI Dept. of Chemical Biology -Chemistry Club

Awardee **Rana Amouri** Project # 112

Grade 5

School Horizon Elementary School

Title Growing Yeast With Sugar Substitutes

Award Name/Description

5TH GRADE 2ND PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Keira Yesh** Project # 113

Grade 5

School Carmel Elementary School

Title Does Temperature Affect How Efficient Ferrofluids Clean Up Oil Spills?

Award Name/Description

Stockholm Junior Water Prize

Award Certificate

Sponsored By Water Environment Federation

Awardee **Keira Yesh** Project # 113

Grade 5

School Carmel Elementary School

Title Does Temperature Affect How Efficient Ferrofluids Clean Up Oil Spills?

Award Name/Description

US Navy Award Honorable Mention

Award Certificate

Sponsored By Office of Naval Research

Awardee **Keira Yesh** Project # 113

Grade 5

School Carmel Elementary School

Title Does Temperature Affect How Efficient Ferrofluids Clean Up Oil Spills?

Award Name/Description

Award for Excellence in Environmental Science 3rd Place (Junior Div.)

Certificate and \$75 Award for projects that best demonstrate an aspect of environmental science

Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Keira Yesh** Project # 113

Grade 5

School Carmel Elementary School

Title Does Temperature Affect How Efficient Ferrofluids Clean Up Oil Spills?

Award Name/Description

5TH GRADE 1ST PLACE

PLAQUE AND \$150

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Ben Edwards** Project # 114

Grade 5

School Prairie Vista

Title Dog Mania

Award Name/Description

Award for Best Use of Statistics - 2nd Place Junior Division

Certificate

Sponsored By Central Indiana Chapter of the American Statistical Association

Awardee **Raeanna Neely** Project # 115

Grade 5

School Aboite Elementary School

Title The Effectiveness of Insulation

Award Name/Description

Outstanding Achievement in a Weather Related Project

Award Certificate

Sponsored By American Meterological Society

Awardee **Laila AbuMahfouz**

Project # 118

Grade 5

School Eman Schools

Title How Safe is Your Water?

Award Name/Description

Community Health Network Award (Elementary School)

Certificate and Gift Bag

Sponsored By Community Health Network

Awardee **Alivia Crozier**

Project # 120

Grade 5

School James R Watson Elem School

Title Ready Set Grow

Award Name/Description

Purdue University Excellence in Agriculture Junior Division

Certificate of Merit

Sponsored By The Purdue College of Agriculture

Awardee **Alivia Crozier**

Project # 120

Grade 5

School James R Watson Elem School

Title Ready Set Grow

Award Name/Description

5TH GRADE 3RD PLACE

PLAQUE AND \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Christopher Schweitzer** Project # 121

Grade 6

School DeKalb Middle School

Title Can iSleep? Part 2

Award Name/Description

Maxine N & David W. Ford STEM Award (Jr. Div.)

Certificate and a \$100 Award

Sponsored By David W. Ford Family

Awardee **Christopher Schweitzer** Project # 121

Grade 6

School DeKalb Middle School

Title Can iSleep? Part 2

Award Name/Description

6TH GRADE 3RD PLACE

PLAQUE AND \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Jakob Prairie** Project # 122

Grade 6

School Brown County Intermeditate School

Title Apparently Ripening

Award Name/Description

Purdue University Excellence in Agriculture Junior Division Winner

Certificate of Merit and \$75 provided by the sponsoring organization

Sponsored By The Purdue College of Agriculture

Awardee **Addison Conner**

Project # 124

Grade 6

School Eastern Elementary School

Title Don't Text and Drive, Deer

Award Name/Description

Outstanding Research in Psychological Sciences

Award Certificate

Sponsored By American Psychological Association

Awardee **Jayne McCormack**

Project # 127

Grade 6

School Honey Creek Middle School

Title Does the color of lights affect how long afterimage lasts?

Award Name/Description

Best Abstract Award- Junior Division

Certificate and \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Hannah Luckey**

Project # 128

Grade 6

School Summit Middle School

Title O' Christmas Tree, O' Christmas Tree, How FLAMMABLE Are Your Branches?

Award Name/Description

US Air Force Award for Excellence

Certificate and Backpack

Sponsored By US Air Force

Awardee **Christopher Chow** Project # 131

Grade 6

School Honey Creek Middle School

Title How does soil affect the pH of water?

Award Name/Description

Award for Excellence in the Geosciences

Award Certificate

Sponsored By Association for Women Geoscientists

Awardee **Christopher Chow** Project # 131

Grade 6

School Honey Creek Middle School

Title How does soil affect the pH of water?

Award Name/Description

Stockholm Junior Water Prize

Award Certificate

Sponsored By Water Environment Federation

Awardee **Albert Rajwa** Project # 135

Grade 6

School Happy Hollow Elementary

Title How Does Temperature Affect Magnetism

Award Name/Description

Award for Best Use of Statistics - 1st Place Junior Division

Certificate and \$50 provided by the sponsoring organization

Sponsored By Central Indiana Chapter of the American Statistical Association

Awardee **Albert Rajwa** Project # 135

Grade 6

School Happy Hollow Elementary

Title How Does Temperature Affect Magnetism

Award Name/Description

6TH GRADE 1ST PLACE

PLAQUE AND \$150

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Griffin Lawrence** Project # 136

Grade 6

School Eastern Hancock Elem School

Title Pitch Perfect Memory

Award Name/Description

Best Psycholoy Project Jr Division

Certificate and \$50

Sponsored By Indiana Psychological Foundation

Awardee **Kirtan Patel** Project # 137

Grade 6

School Happy Hollow Elementary

Title Five Second Rule

Award Name/Description

NOBCCHE Excellence in STEM Award (Junior Division)

Certificate and \$150

Sponsored By National Organization of Black Chemists and Chemical Engineers.

Awardee **Kirtan Patel** Project # 137

Grade 6

School Happy Hollow Elementary

Title Five Second Rule

Award Name/Description

6TH GRADE 2ND PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Michael Blezek** Project # 138

Grade 6

School Burris Laboratory School

Title Friction

Award Name/Description

Best Project for work related to Tribology

Certificate of Merit and \$50

Sponsored By The Society of Tribologist and Lubrication Engineers (STLE)

Awardee **Christopher Lee** Project # 139

Grade 6

School Happy Hollow Elementary

Title Simulating Evolution From Mutation By Computer Simulation

Award Name/Description

Ivy Tech Biotechnology Award -in the Junior Division Life Sciences

Award Certificate

Sponsored By IVY Tech Dept. of Biotechnology, Bloomington Campus

Awardee **Chloe Smith** Project # 141

Grade 6

School Concord Intermediate School

Title What liquid makes a plant grow the tallest?

Award Name/Description

Purdue University Excellence in Agriculture Junior Division

Certificate of Merit

Sponsored By The Purdue College of Agriculture

Awardee **Isabella Budak & Tyrah Stillman** Project # 145

Grade 7

School Angola Middle School

Title The Force of Football

Award Name/Description

Future Female Engineer 3rd Place

Certificate of Achievement and \$150

Sponsored By Society for Women Engineers Central Indiana Section

Awardee **Ashlynn Duckworth** Project # 154

Grade 7

School Saint Mary School

Title The effect of Duckweed on Field Runoff

Award Name/Description

Purdue University Excellence in Agriculture Junior Division

Certificate of Merit

Sponsored By The Purdue College of Agriculture

Awardee **Faisal Syed** Project # 156

Grade 7

School Schmucker Middle School

Title The Effects of Artificial Sweeteners on Drosophila melanogaster Circadian Rhythms

Award Name/Description

US Air Force Award for Excellence

Certificate and Backpack

Sponsored By US Air Force

Awardee **Shreya Krishnan** Project # 158

Grade 7

School Carmel Middle School

Title SoLarge Energy!

Award Name/Description

NASA Earth System Science Award

Certificate- of Merit0

Sponsored By National Aeronautics and Space Administration

Awardee **Shreya Krishnan** Project # 158

Grade 7

School Carmel Middle School

Title SoLarge Energy!

Award Name/Description

US Navy Award for Excellence

Award Certificate and Medallion

Sponsored By Office of Naval Research

Awardee **Shreya Krishnan**

Project # 158

Grade 7

School Carmel Middle School

Title SoLarge Energy!

Award Name/Description

Future Female Engineer 2nd Place

Certificate of Achievement and \$300

Sponsored By Society for Women Engineers Central Indiana Section

Awardee **Shreya Krishnan**

Project # 158

Grade 7

School Carmel Middle School

Title SoLarge Energy!

Award Name/Description

7TH GRADE 1ST PLACE

PLAQUE AND \$150

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Shreya Krishnan**

Project # 158

Grade 7

School Carmel Middle School

Title SoLarge Energy!

Award Name/Description

Junior Division Top Young Scientist

Plaque and \$250

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Eric Wroblewski** Project # 159

Grade 7

School Barker Middle School

Title Till or No-Till

Award Name/Description

Pete Kissinger Award for Entrepreneurial Spirit

Certificate and \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Arko Mukhopadhyay** Project # 160

Grade 7

School West Lafayette Jr/Sr High School

Title Biodiesel efficiency

Award Name/Description

Award for Excellence in Environmental Science Honorable Mention (Junior Div.)

Certificate for projects that best demonstrate an aspect of environmental science

Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Arko Mukhopadhyay** Project # 160

Grade 7

School West Lafayette Jr/Sr High School

Title Biodiesel efficiency

Award Name/Description

Best Project for work related to Tribology

Certificate of Merit and \$50

Sponsored By The Society of Tribologist and Lubrication Engineers (STLE)

Awardee **Cole Klinedinst** Project # 161

Grade 7

School Discovery Middle School

Title How does Water Flow Effect Electricity Generated by a Kelvin Electrostatic Generator

Award Name/Description

7TH GRADE 3RD PLACE

PLAQUE AND \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Raghav Sriram** Project # 164

Grade 7

School Carmel Middle School

Title Corn Crazy

Award Name/Description

Award for Excellence in Environmental Science 2nd Place (Junior Div.)

Certificate and \$125 Award for projects that best demonstrate an aspect of environmental science

Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Raghav Sriram** Project # 164

Grade 7

School Carmel Middle School

Title Corn Crazy

Award Name/Description

7TH GRADE 2ND PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Andrew Kinne** Project # 166
Grade 7
School Saint Patrick School
Title 3D Printed Beams: Exploring the Effect of Infill Percentage and Geometry on Fracture Strength in 3D-Printed Beams
Award Name/Description
Award for Excellence in the Use of the Metric System
Award Certificate
Sponsored By US Metric Association

Awardee **Rowan Tinker** Project # 170
Grade 8
School Eastside Junior-Senior High School
Title Zea Mays Fuel Craze
Award Name/Description
US Navy Award for Excellence
Award Certificate and Medallion
Sponsored By Office of Naval Research

Awardee **Rowan Tinker** Project # 170
Grade 8
School Eastside Junior-Senior High School
Title Zea Mays Fuel Craze
Award Name/Description
Best Use of Chemistry 3rd Place
For excellence in demonstration of a chemical principle Certificate and \$100
Sponsored By Sponsored by Roche and presented by Indiana Section of the American Chemical Society

Awardee **Rowan Tinker** Project # 170

Grade 8

School Eastside Junior-Senior High School

Title Zea Mays Fuel Craze

Award Name/Description

IUPUI Department of Biology Award Junior Division

Certificate and \$100

Sponsored By IUPUI Department of Biology

Awardee **Abigail Burton** Project # 172

Grade 8

School Michael Grimmer Middle School

Title NA3C6H5O7 Anticoagulant - Stopping the Clot

Award Name/Description

Indiana Blood Center Award for Excellence in a Science Project (Jr. Division)

Certificate and a monetary award of \$50.00

Sponsored By Indiana Blood Center

Awardee **Vinay Krishnan & Shawn Nazarloo** Project # 174

Grade 8

School Fall Creek Junior High School

Title Real Time Facial Recognition Using Principal Component Analysis (PCA)

Award Name/Description

US Air Force Award for Excellence

Certificate and Backpack

Sponsored By US Air Force

Awardee **Vinay Krishnan & Shawn Nazarloo** Project # 174

Grade 8

School Fall Creek Junior High School

Title Real Time Facial Recognition Using Principal Component Analysis (PCA)

Award Name/Description

8TH GRADE 1ST PLACE

PLAQUE AND \$150

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Elise Forbes** Project # 175

Grade 8

School Fall Creek Junior High School

Title The Effects of Neodymium Magnets on Planeria Regeneration

Award Name/Description

Scholarship Award for 2017 DNA Learning Center Summer Camp - Residential

Fully paid scholarship for a one week session to the DNA Learning Center Summer Science Camp (residential) located at the University of Notre Dame

Sponsored By Notre Dame DNA Learning Center

Awardee **Elise Forbes** Project # 175

Grade 8

School Fall Creek Junior High School

Title The Effects of Neodymium Magnets on Planeria Regeneration

Award Name/Description

8TH GRADE 3RD PLACE

PLAQUE AND \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Kreesha Saha**

Project # 177

Grade 8

School West Lafayette Jr/Sr High School

Title Using Cactus Mucilage to Remove Nitrate from Drinking Water

Award Name/Description

Leslie A Willig Spirit of Science Award

Certificate and \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Siya Goel**

Project # 185

Grade 8

School West Lafayette Jr/Sr High School

Title Progeria: Aging From Childhood

Award Name/Description

US Navy Award Honorable Mention

Award Certificate

Sponsored By Office of Naval Research

Awardee **Siya Goel**

Project # 185

Grade 8

School West Lafayette Jr/Sr High School

Title Progeria: Aging From Childhood

Award Name/Description

Community Health Network Award (Middle School)

Certificate and Gift Bag

Sponsored By Community Health Network

Awardee **Siya Goel** Project # 185

Grade 8

School West Lafayette Jr/Sr High School

Title Progeria: Aging From Childhood

Award Name/Description

Scholarship Award for 2017 DNA Learning Center Summer Camp - Residential

Fully paid scholarship for a one week session to the DNA Learning Center Summer Science Camp (residential) located at the University of Notre Dame

Sponsored By Notre Dame DNA Learning Center

Awardee **Tom Huynh** Project # 189

Grade 8

School Maple Creek Middle School

Title Shining Light on the Water and Electricity Crisis

Award Name/Description

Ricoh Sustainable Development Award

Award Certificate

Sponsored By Ricoh Corporation

Awardee **Tom Huynh** Project # 189

Grade 8

School Maple Creek Middle School

Title Shining Light on the Water and Electricity Crisis

Award Name/Description

Award for Excellence in Environmental Science 1st Place (Junior Div.)

Certificate and \$200 Award for projects that best demonstrate an aspect of environmental science

Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Tom Huynh** Project # 189

Grade 8

School Maple Creek Middle School

Title Shining Light on the Water and Electricity Crisis

Award Name/Description

8TH GRADE 2ND PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Andy Lipton** Project # 191

Grade 8

School Lafayette Tecumseh Jr High School

Title Spicy Antibiotics: The Effect of Capsaicin on Bacteria Growth

Award Name/Description

Best Use of Chemistry 2nd Place

For excellence in demonstration of a chemical principle Certificate and \$150

Sponsored By Indiana Section of the American Chemical Society

Awardee **Grace Kobylanski** Project # 194

Grade 8

School Castle North Middle School

Title enviRONment BOT

Award Name/Description

SAIC Award for Excellence in Science or Engineering Research - Focusing on Applied Science

Certificate and \$50 Award

Sponsored By Science Applications International Corporation (SAIC)

Awardee **Grace Kobylanski** Project # 194

Grade 8

School Castle North Middle School

Title enviRONment BOT

Award Name/Description

Future Female Engineer 1st Place

Certificate of Achievement and \$500

Sponsored By Society for Women Engineers Central Indiana Section

Awardee **Grace Kobylanski** Project # 194

Grade 8

School Castle North Middle School

Title enviRONment BOT

Award Name/Description

Ivy Tech Biotechnology Award -in the Junior Division Physical Sciences

Award Certificate

Sponsored By IVY Tech Dept. of Biotechnology, Bloomington Campus

Awardee **Caitleen Reyes** Project # 195

Grade 8

School Castle North Middle School

Title Greenery + Soil or Fish?

Award Name/Description

US Navy Award for Excellence

Award Certificate and Medallion

Sponsored By Office of Naval Research

Awardee **Jaytee Wesolowski**

Project # 302

Grade 9

School Marian High School

Title Strengthening Concrete

Award Name/Description

US Navy Award Honorable Mention

Award Certificate

Sponsored By Office of Naval Research

Awardee **Emma Grant**

Project # 303

Grade 9

School Boone Grove High School

Title The Effects of Adding Substances with Ionic or Covalent bonds to Soil Based Microbial Fuel Cells

Award Name/Description

NASA Earth System Science Award

Certificate- of Merit

Sponsored By National Aeronautics and Space Administration

Awardee **Jacob Martin**

Project # 308

Grade 9

School Northwestern Sr High School

Title The Effect of Oscillatoria on Flooded Glycine max

Award Name/Description

Outstanding Achievement in a Weather Related Project

Award Certificate

Sponsored By American Meteorological Society

Awardee **Jacob Martin** Project # 308

Grade 9

School Northwestern Sr High School

Title The Effect of Oscillatoria on Flooded Glycine max

Award Name/Description

Award for Excellence in Environmental Science 2nd Place (Senior Div.)

Certificate and \$200 Award for projects that best demonstrate an aspect of environmental science

Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Jacob Martin** Project # 308

Grade 9

School Northwestern Sr High School

Title The Effect of Oscillatoria on Flooded Glycine max

Award Name/Description

Award for Best Use of Statistics - 3rd Place Senior Division

Certificate and \$50 provided by the sponsoring organization

Sponsored By Central Indiana Chapter of the American Statistical Association

Awardee **Jacob Martin** Project # 308

Grade 9

School Northwestern Sr High School

Title The Effect of Oscillatoria on Flooded Glycine max

Award Name/Description

9TH GRADE 2ND PLACE

PLAQUE AND \$300

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Jacob Martin**

Project # 308

Grade 9

School Northwestern Sr High School

Title The Effect of Oscillatoria on Flooded Glycine max

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Andrew Riehle**

Project # 309

Grade 9

School McCutcheon High School

Title Do home materials affect the speed of sound

Award Name/Description

Award for Excellence in the Use of the Metric System

Award Certificate

Sponsored By US Metric Association

Awardee **Jessica Agonis**

Project # 310

Grade 9

School Boone Grove High School

Title Acid Rain Radish Growth

Award Name/Description

Stockholm Junior Water Prize

Award Certificate and an Opportunity to Enter State Level Competition

Sponsored By Water Environment Federation

Awardee **Jessica Agonis** Project # 310

Grade 9

School Boone Grove High School

Title Acid Rain Radish Growth

Award Name/Description

US Navy Award for Excellence

Award Certificate , \$75 Gift Certificate and Medallion

Sponsored By Office of Naval Research

Awardee **Mitchell Sampson** Project # 312

Grade 9

School Northview High School

Title 3D Printing Away Catheter-Associated Urinary Tract Infections

Award Name/Description

Community Health Network Award (High School)

Certificate and Gift Bag

Sponsored By Community Health Network

Awardee **Mitchell Sampson** Project # 312

Grade 9

School Northview High School

Title 3D Printing Away Catheter-Associated Urinary Tract Infections

Award Name/Description

Biophysics Award for the best biophysics related project

Award Certificate and \$100 from the sponsoring organization

Sponsored By The Biophysical Society

Awardee **Mitchell Sampson**

Project # 312

Grade 9

School Northview High School

Title 3D Printing Away Catheter-Associated Urinary Tract Infections

Award Name/Description

9TH GRADE 3RD PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Mitchell Sampson**

Project # 312

Grade 9

School Northview High School

Title 3D Printing Away Catheter-Associated Urinary Tract Infections

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Katianna Richardson**

Project # 314

Grade 9

School Brown County High School

Title The Impact of Biodegradable Plastic on Soil Quality

Award Name/Description

Ricoh Sustainable Development Award

Award Certificate

Sponsored By Ricoh Corporation

Awardee **Katianna Richardson** Project # 314

Grade 9

School Brown County High School

Title The Impact of Biodegradable Plastic on Soil Quality

Award Name/Description

ASU Environmental Sustainability Award

Certificate and Entry into National Competition

Sponsored By Arizona State University- Walton Sustainability Solutions Initiative

Awardee **Sydney Hefty** Project # 317

Grade 9

School DeKalb High School

Title The Effects of Acetic Acid Concentrations as a Natural Herbicide

Award Name/Description

US Air Force Award for Excellence

Certificate and Backpack

Sponsored By US Air Force

Awardee **Sydney Hefty** Project # 317

Grade 9

School DeKalb High School

Title The Effects of Acetic Acid Concentrations as a Natural Herbicide

Award Name/Description

Purdue University Excellence in Agriculture Best of Show

Certificate of Merit and \$150 provided by the sponsoring organization

Sponsored By The Purdue College of Agriculture

Awardee **Sydney Hefty**

Project # 317

Grade 9

School DeKalb High School

Title The Effects of Acetic Acid Concentrations as a Natural Herbicide

Award Name/Description

9TH GRADE 1ST PLACE

PLAQUE AND \$500

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Sydney Hefty**

Project # 317

Grade 9

School DeKalb High School

Title The Effects of Acetic Acid Concentrations as a Natural Herbicide

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Abigail Yeager**

Project # 323

Grade 9

School Eastside Junior-Senior High School

Title Engineering an Artificial Pancreas

Award Name/Description

Most Outstanding Project in In Vitro Biology

Award Certificate

Sponsored By Society for In Vitro Biology

Awardee **Jessica Hartmus** Project # 324

Grade 10

School Bishop Luers High School

Title The Fine Art of Oxidation - Development of Titanium Anodizing as an Art Medium

Award Name/Description

Most Outstanding Exhibit in Materials Science

Award Certificate

Sponsored By ASM Materials Education Foundation

Awardee **Jessica Hartmus** Project # 324

Grade 10

School Bishop Luers High School

Title The Fine Art of Oxidation - Development of Titanium Anodizing as an Art Medium

Award Name/Description

Best Abstract Award- Senior Division

Certificate and \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Emily Brice** Project # 327

Grade 10

School Jefferson High School

Title Effect of ABO Blood Types on the Growth Rate of Acute Myeloid Leukemia

Award Name/Description

Most Outstanding Project in In Vitro Biology

Award Certificate

Sponsored By Society for In Vitro Biology

Awardee **Emily Brice** Project # 327

Grade 10

School Jefferson High School

Title Effect of ABO Blood Types on the Growth Rate of Acute Myeloid Leukemia

Award Name/Description

Indiana Blood Center Award for Excellence in a Science Project (Sr. Division)

Certificate and a monetary award of \$50.00

Sponsored By Indiana Blood Center

Awardee **Emily Brice** Project # 327

Grade 10

School Jefferson High School

Title Effect of ABO Blood Types on the Growth Rate of Acute Myeloid Leukemia

Award Name/Description

Best Clinical Laboratory Science Project

Certificate and \$100

Sponsored By The Consortium of Indiana Medical Laboratory Educators

Awardee **Ankush Dhawan** Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

Award for Excellence in the Geosciences

Award Certificate

Sponsored By Association for Women Geoscientists

Awardee **Ankush Dhawan** Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

Award for Excellence in Environmental Science 1st Place (Senior Div.)

Certificate and \$300 Award for projects that best demonstrate an aspect of environmental science

Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Ankush Dhawan** Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

IUPUI Chem Club Award

Certificate \$50 and a book

Sponsored By IUPUI Dept. of Chemical Biology -Chemistry Club

Awardee **Ankush Dhawan** Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

Ivy Tech Biotechnology Award -in the Senior Division Physical Sciences

Award Certificate

Sponsored By IVY Tech Dept. of Biotechnology, Bloomington Campus

Awardee **Ankush Dhawan**

Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

10TH GRADE 1ST PLACE

PLAQUE AND \$500

Sponsored By Science Education Foundation of Indiana,Inc.

Awardee **Ankush Dhawan**

Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

Senior Division Top Young Scientist

Plaque and \$500

Sponsored By Science Education Foundation of Indiana,Inc.

Awardee **Ankush Dhawan**

Project # 331

Grade 10

School Signature School Inc

Title An Improved Method for Trace Level Arsenic Quantification in Water

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana,Inc.

Awardee **Mackenzie Hunt** Project # 332

Grade 10

School New Tech Institute

Title Do We Have Back Pain Beat?

Award Name/Description

US Navy Award for Excellence

Award Certificate , \$75 Gift Certificate and Medallion

Sponsored By Office of Naval Research

Awardee **Akshaj Mishra** Project # 333

Grade 10

School Signature School Inc

Title Biobased synthesis of acetylsalicylic acid using green chemistry: benefits beyond the expected

Award Name/Description

Best Use of Chemistry 1st Place

For excellence in demonstration of a chemical principle Certificate and \$250

Sponsored By Indiana Section of the American Chemical Society

Awardee **Akshaj Mishra** Project # 333

Grade 10

School Signature School Inc

Title Biobased synthesis of acetylsalicylic acid using green chemistry: benefits beyond the expected

Award Name/Description

10TH GRADE 3RD PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Akshaj Mishra** Project # 333
Grade 10
School Signature School Inc
Title Biobased synthesis of acetylsalicylic acid using green chemistry: benefits beyond the expected
Award Name/Description
ISEF Trip Winner
All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Gabe Hefty** Project # 334
Grade 10
School DeKalb High School
Title Microbial Fuel Cell: Waste to Energy Innovation
Award Name/Description
US Air Force Award for Excellence
Certificate and Backpack

Sponsored By US Air Force

Awardee **Isaac Lammers** Project # 335
Grade 10
School Jefferson High School
Title WiFi Deauthorization: Pentesting Network Security
Award Name/Description
Intel Excellence in Computer Science
Award Certificate and \$200 provided by Intel Corp.

Sponsored By Intel Corporation

Awardee **Nicole Segaran** Project # 337

Grade 10

School Carmel High School

Title Optimization of the Degradation of Azo Dyes via Saccharomyces Cerevisiae

Award Name/Description

10TH GRADE 2ND PLACE

PLAQUE AND \$300

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Nicole Segaran** Project # 337

Grade 10

School Carmel High School

Title Optimization of the Degradation of Azo Dyes via Saccharomyces Cerevisiae

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Ariana Opuszanski** Project # 338

Grade 11

School Terre Haute North Vigo High School

Title Gears, Pulleys, and Wind Turbines

Award Name/Description

Most Outstanding Engineering Project by an 11th Grade Exhibitor

Award Certificate and a Pewter Medallion

Sponsored By Yale Science and Engineering Association

Awardee **Sepehr Asgari** Project # 340
Grade 11
School Carmel High School
Title Engineering of Fusion Protein Therapeutics to Efficiently Combat Neurological Damage Caused by E. coli K1 Meningitis
Award Name/Description
Award for Best Use of Statistics - 2nd Place Senior Division
Certificate and \$100 provided by the sponsoring organization
Sponsored By Central Indiana Chapter of the American Statistical Association

Awardee **Sepehr Asgari** Project # 340
Grade 11
School Carmel High School
Title Engineering of Fusion Protein Therapeutics to Efficiently Combat Neurological Damage Caused by E. coli K1 Meningitis
Award Name/Description
IUPUI Department of Biology Award Senior Division
Certificate and \$100
Sponsored By IUPUI Department of Biology

Awardee **Mariana Aguilar** Project # 341
Grade 11
School William Henry Harrison High School
Title Treating Lowe Syndrome patient cells with novel therapeutic agents
Award Name/Description
Young Female Scientific Excellence Award
Certificate and \$100
Sponsored By Women In Lilly Discovery and Development

Awardee **Amanda Wilson** Project # 342

Grade 11

School Northwestern Sr High School

Title Analyzing the Pesticidal Properties of Trichoderma harzianum

Award Name/Description

Maxine N & David W. Ford STEM Award (Sr.Div.)

Certificate and a \$150 Award

Sponsored By David W. Ford Family

Awardee **Amanda Wilson** Project # 342

Grade 11

School Northwestern Sr High School

Title Analyzing the Pesticidal Properties of Trichoderma harzianum

Award Name/Description

Purdue University Excellence in Agriculture Senior Division Winner

Certificate of Merit and \$100 provided by the sponsoring organization

Sponsored By The Purdue College of Agriculture

Awardee **Amanda Wilson** Project # 342

Grade 11

School Northwestern Sr High School

Title Analyzing the Pesticidal Properties of Trichoderma harzianum

Award Name/Description

11TH GRADE 1ST PLACE

PLAQUE AND \$500

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Amanda Wilson** Project # 342

Grade 11

School Northwestern Sr High School

Title Analyzing the Pesticidal Properties of Trichoderma harzianum

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Levi Hrabos** Project # 343

Grade 11

School Northwestern Sr High School

Title Testing the Viability of Various Organisms as Pioneer Species for Nuclear Contamination Sites

Award Name/Description

Taking the Pulse of the Planet Award

Award Certificate

Sponsored By National Oceanic and Atmospheric Administration

Awardee **Mary Sgroi & Victor Karwacinski** Project # 347

Grade 11

School Trinity School At Greenlawn

Title Non-Thermal, Atmospheric Plasma: A Means of Water Purification

Award Name/Description

Stockholm Junior Water Prize

Award Certificate and an Opportunity to Enter State Level Competition

Sponsored By Water Environment Federation

Awardee **Mary Sgroi & Victor Karwacinski** Project # 347
Grade 11
School Trinity School At Greenlawn
Title Non-Thermal, Atmospheric Plasma: A Means of Water Purification
Award Name/Description
ASU Environmental Sustainability Award
Certificate and Entry into National Competition
Sponsored By Arizona State University- Walton Sustainability Solutions Initiative

Awardee **Mary Sgroi & Victor Karwacinski** Project # 347
Grade 11
School Trinity School At Greenlawn
Title Non-Thermal, Atmospheric Plasma: A Means of Water Purification
Award Name/Description
Award for Excellence in Environmental Science 3rd Place (Senior Div.)
Certificate and \$100 Award for projects that best demonstrate an aspect of environmental science
Sponsored By Indiana Association of Environmental Professionals (INAEP)

Awardee **Mary Sgroi & Victor Karwacinski** Project # 347
Grade 11
School Trinity School At Greenlawn
Title Non-Thermal, Atmospheric Plasma: A Means of Water Purification
Award Name/Description
Ivy Tech Biotechnology Award -in the Senior Division Life Sciences
Award Certificate
Sponsored By IVY Tech Dept. of Biotechnology, Bloomington Campus

Awardee **Mary Sgroi & Victor Karwacinski**

Project # 347

Grade 11

School Trinity School At Greenlawn

Title Non-Thermal, Atmospheric Plasma: A Means of Water Purification

Award Name/Description

11TH GRADE 2ND PLACE

PLAQUE AND \$300

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Mary Sgroi & Victor Karwacinski**

Project # 347

Grade 11

School Trinity School At Greenlawn

Title Non-Thermal, Atmospheric Plasma: A Means of Water Purification

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Abdessamed Boussaha**

Project # 348

Grade 11

School Elkhart Memorial High School

Title Painless Needle

Award Name/Description

Pete Kissinger Award for Entrepreneurial Spirit Senior Division

Certificate and \$50

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Parker Jou** Project # 350

Grade 11

School Carmel High School

Title The Impact of Rotational Damping on Applied Systems

Award Name/Description

Mu Alpha Theta Award for best project in mathematics

Certificate of Merit

Sponsored By Mu Alpha Theta - National Math Honor Society

Awardee **Parker Jou** Project # 350

Grade 11

School Carmel High School

Title The Impact of Rotational Damping on Applied Systems

Award Name/Description

11TH GRADE 3RD PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Parker Jou** Project # 350

Grade 11

School Carmel High School

Title The Impact of Rotational Damping on Applied Systems

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Alexander Gu** Project # 351

Grade 11

School Park Tudor School (9-12)

Title A Novel Machine Learning Approach to Detect Patient Resistance in Health Behavior Change Therapy

Award Name/Description

Mu Alpha Theta Award for best project in mathematics

Certificate of Merit

Sponsored By Mu Alpha Theta - National Math Honor Society

Awardee **Alexander Gu** Project # 351

Grade 11

School Park Tudor School (9-12)

Title A Novel Machine Learning Approach to Detect Patient Resistance in Health Behavior Change Therapy

Award Name/Description

Best Psychology Project Sr Division

Certificate and \$50

Sponsored By Indiana Psychological Foundation

Awardee **Julia Maxwell** Project # 352

Grade 11

School Jefferson High School

Title Effects of 5-HT7 Receptor Antagonists on Behaviors of Mice that Detect Drugs Used in the Treatment of Anxiety, Depression, and Schizophrenia

Award Name/Description

US Navy Award for Excellence

Award Certificate , \$75 Gift Certificate and Medallion

Sponsored By Office of Naval Research

Awardee **Zelton Kay** Project # 353
Grade 11
School Brown County High School
Title Micro Windturbine
Award Name/Description
US Air Force Award for Excellence
Certificate and Backpack
Sponsored By US Air Force

Awardee **Mekenzie Dunnuck** Project # 354
Grade 11
School Brown County High School
Title Synthesis of Aspirin with Acid Derived from Natural Resources
Award Name/Description
Young Female Scientific Excellence Award
Certificate and \$100
Sponsored By Women In Lilly Discovery and Development

Awardee **Mohamed Bouftas** Project # 356
Grade 11
School William Henry Harrison High School
Title Can Impedance be used to Detect Amyloid Beta-42 in Artificial Saliva?
Award Name/Description
Most Outstanding Engineering Project by an 11th Grade Exhibitor
Award Certificate and a Pewter Medallion
Sponsored By Yale Science and Engineering Association

Awardee **Mohamed Bouftas** Project # 356

Grade 11

School William Henry Harrison High School

Title Can Impedance be used to Detect Amyloid Beta-42 in Artificial Saliva?

Award Name/Description

SAIC Award for Excellence in Science or Engineering Research - Focusing on Applied Science
Certificate and \$50 Award

Sponsored By Science Applications International Corporation (SAIC)

Awardee **Olivia Holman** Project # 361

Grade 11

School Terre Haute North Vigo High School

Title Water Quality

Award Name/Description

Stockholm Junior Water Prize
Award Certificate and an Opportunity to Enter State Level Competition

Sponsored By Water Environment Federation

Awardee **Olivia Holman** Project # 361

Grade 11

School Terre Haute North Vigo High School

Title Water Quality

Award Name/Description

Leslie A Willig Spirit of Science Award Senior Division
Certificate and \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Makaila Ranges** Project # 364
Grade 12
School Marian High School
Title Contrast-Enhanced Detection of Microcalcifications in Mammography
Award Name/Description
Award for Excellence in the Use of the Metric System
Award Certificate
Sponsored By US Metric Association

Awardee **Makaila Ranges** Project # 364
Grade 12
School Marian High School
Title Contrast-Enhanced Detection of Microcalcifications in Mammography
Award Name/Description
NOBCChE Excellence in STEM Award (Senior Division)
Certificate and \$150
Sponsored By National Organization of Black Chemists and Chemical Engineers.

Awardee **Jackson Boyle** Project # 365
Grade 12
School Delta High School
Title Multi Fuel Analysis: Evaluation to Compare Emissions
Award Name/Description
US Air Force Award for Excellence
Certificate and Backpack
Sponsored By US Air Force

Awardee **Jackson Boyle** Project # 365

Grade 12

School Delta High School

Title Multi Fuel Analysis: Evaluation to Compare Emissions

Award Name/Description

12TH GRADE 2ND PLACE

PLAQUE AND \$300

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Jackson Boyle** Project # 365

Grade 12

School Delta High School

Title Multi Fuel Analysis: Evaluation to Compare Emissions

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Bowen Jing** Project # 366

Grade 12

School West Lafayette Jr/Sr High School

Title Targeted Screen of Genes Involved in Drosophila Neuromuscular Junction Development

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Yoshio Ascencio** Project # 367

Grade 12

School Elkhart Memorial High School

Title Augmentation of the Shashlik Detector's Components

Award Name/Description

Leslie A Willig Scholarship

Scholarship in the amount of \$1,000

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Cannon Kelp** Project # 369

Grade 12

School Brown County High School

Title Toxicity of G. Lucidum Extract in Daphnia

Award Name/Description

John and Janet Davis Scholarship

Scholarship in the amount of \$1,000

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Anthony Weng** Project # 371

Grade 12

School Terre Haute South Vigo High School

Title Satellite Modeling of Wildfire Susceptibility in California by Using Artificial Neural Networking

Award Name/Description

Outstanding Achievement in a Weather Related Project

Award Certificate

Sponsored By American Meteorological Society

Awardee **Anthony Weng** Project # 371

Grade 12

School Terre Haute South Vigo High School

Title Satellite Modeling of Wildfire Susceptibility in California by Using Artificial Neural Networking

Award Name/Description

Award for Best Use of Statistics - 1st Place Senior Division

Certificate and \$200 provided by the sponsoring organization

Sponsored By Central Indiana Chapter of the American Statistical Association

Awardee **Anthony Weng** Project # 371

Grade 12

School Terre Haute South Vigo High School

Title Satellite Modeling of Wildfire Susceptibility in California by Using Artificial Neural Networking

Award Name/Description

12TH GRADE 3RD PLACE

PLAQUE AND \$100

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Anthony Weng** Project # 371

Grade 12

School Terre Haute South Vigo High School

Title Satellite Modeling of Wildfire Susceptibility in California by Using Artificial Neural Networking

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Abraham Oliver** Project # 374

Grade 12

School Brown County High School

Title Can Deep Reinforcement Learning Solve Misère Combinatorial Games?

Award Name/Description

Intel Excellence in Computer Science

Award Certificate and \$200 provided by Intel Corp.

Sponsored By Intel Corporation

Awardee **Abraham Oliver** Project # 374

Grade 12

School Brown County High School

Title Can Deep Reinforcement Learning Solve Misère Combinatorial Games?

Award Name/Description

Best Mathemactics Project Division

Certificate and \$25

Sponsored By Indiana Section of the Mathematical Association of America (IN-MAA)

Awardee **Abraham Oliver** Project # 374

Grade 12

School Brown County High School

Title Can Deep Reinforcement Learning Solve Misère Combinatorial Games?

Award Name/Description

12TH GRADE 1ST PLACE

PLAQUE AND \$500

Sponsored By Science Education Foundation of Indiana,Inc.

Awardee **Abraham Oliver**

Project # 374

Grade 12

School Brown County High School

Title Can Deep Reinforcement Learning Solve Misère Combinatorial Games?

Award Name/Description

ISEF Trip Winner

All expense paid trip to Intel ISEF

Sponsored By Science Education Foundation of Indiana, Inc.

Awardee **Aspen Pflughoeft**

Project # 380

Grade 12

School Lakewood Park Christian School

Title Do The Eyes Have It?

Award Name/Description

Outstanding Research in Psychological Sciences

Award Certificate

Sponsored By American Psychological Association

Awardee **Dennis Mammolenti**

Project # 382

Grade 12

School Marian High School

Title Which Cisplatin-Induced Genes are Associated with Nephrotoxicity?

Award Name/Description

US Navy Award Honorable Mention

Award Certificate

Sponsored By Office of Naval Research

Awardee **Cade Orchard**

Project #

383

Grade 12

School Delta High School

Title Determining Genetic Requirements for Translocon-Associated Protein Degradation

Award Name/Description

Joe and Reba Weaver Scholarship

Scholarship in the amount of \$3,000

Sponsored By Science Education Foundation of Indiana, Inc.
