

81<sup>st</sup> Annual Minnesota  
State Science &  
Engineering Fair

**Grand Awards**



**MINNESOTA ACADEMY OF SCIENCE**

—Promoting Excellence in Science Since 1873—



SEAGATE

## *Seagate Emerging Scientist Award*

Natalie Duquaine	Leihanah Weinacht	Makenna Grossbach	Devika Narayan
Betsy Hofer	Ayush Shah	Hannah Coonan	Ella Brisbois
Maggie Banks	Libby Witcombe	Brenna McLean	Will Schmitt
Parthiv Krishna	Tim Trussell	Amanda McKellips	Isaac Mauch
Ravi Chepuri	Catherine Pirtle	Grace Weitzel	Benjamin Ertl
Milan Jostes	Lana Trautman	Malachy Bloom	John Nipp
Diana Zhu	Iesh Gujral	Luke Drummer	Elizabeth Payne
Peter Velgersdyk	Yahye Faarah	Evan Knoll	Camryn Franke
Montian Natrakul	Noah Hasler	Jackie Bush	Annie Lam
Louise Kim	Leonardo Clarke	Tanmay Iyer	Alharith Dameh
Spencer Yueh	Aili Buytaert	Matthew Trussell	Carissa Chow
Josh Trussell	Kiera McCoy	Elizabeth Schwint	Megan Lindow



SEAGATE

*Seagate Excellence in Science  
Mentoring Award*

11+ Years of Experience

**Shawn Stafki**  
Perham High school



SEAGATE

*Seagate Excellence in Science  
Mentoring Award*

11+ Years of Experience

**Virginia Amundson**  
Breck School



SEAGATE

*Seagate Rising Star Award*  
Middle School

**Thomas Murphy**



SEAGATE

*Seagate Rising Star Award*

High School

**Parthiv Krishna**



3M Science Award

3<sup>rd</sup> Place **Middle** School

**3M**

**Ellie Scheldberg**



3M Science Award

**2nd** Place **Middle** School

**3M** Nova Midwinter





3M Science Award

**1st** Place **Middle** School

**3M** **Thomas Murphy**



3M Science Award

**3rd** Place **High** School

**3M** **Haley Jostes**



3M Science Award

**2nd** Place **High** School

**Parthiv Krishna**

**3M**



3M Science Award

**1st** Place **High** School

**3M**

**Felisha Fox &  
Michael Pupel**

**ECOLAB**

*Food Safety Award*

**1<sup>st</sup> Place Middle School**

**Becca Ballard**



ECOLAB

*Food Safety Award*

1<sup>st</sup> Place High School

**Molly Carroll & Mari  
Leland**

**ECOLAB<sup>®</sup>**

ECOLAB

*ECOLAB Green Award*  
1<sup>st</sup> Place Middle School

**Annelisa Purcell**



ECOLAB

*ECOLAB Green Award*  
1<sup>st</sup> Place High School

**Preethi Kaliappan**

**ECOLAB<sup>®</sup>**





# LAND O' LAKES, INC.

*Award for Food Innovation*

**3rd** Place **Middle** School

**Maggie Fuller**



# LAND O' LAKES, INC.

*Award for Food Innovation*

**2nd** Place **Middle** School

**Muminah Nihaar Mohammed**



# LAND O' LAKES, INC.

*Award for Food Innovation*

**1st** Place **Middle** School

**Quentin Hughes &  
Vaughn Hughes**



# LAND O' LAKES, INC.

*Award for Food Innovation*

**3rd** Place **High** School

**Elizabeth Duerr**



# LAND O' LAKES, INC.

*Award for Food Innovation*

**2nd** Place **High** School

**Ayush Shah**



# LAND O' LAKES, INC.

*Award for Food Innovation*

**1st** Place **High** School

**Yuxuan Geng**

# Wolfram Research

## Wolfram Research Mathematica Software Award

<b>Lily Hall</b>	<b>Hassan Mehdi</b>	<b>Joseph Mohr</b>	<b>Evan Bowen</b>
<b>Malachy Bloom</b>	<b>Betsy Hofer</b>	<b>Rikhil Seshadri</b>	<b>Andrew Sailstad</b>
<b>Luke Drummer</b>	<b>Emma Carr</b>	<b>Reed Thoma</b>	<b>Aaron Bae</b>
<b>Samuel Leville</b>	<b>Kerui Yang</b>	<b>Libby Witcombe</b>	<b>Molly Carroll</b>
<b>Abigail Roh</b>	<b>Maggie Banks</b>	<b>Iesh Gujral</b>	<b>Mari Leland</b>
<b>Megan Morgan</b>	<b>Supriya Roy</b>	<b>Luke Attlesey</b>	<b>Isabel Dieperink</b>
<b>Becca Ballard</b>	<b>Sam Aronson</b>	<b>John Attlesey</b>	<b>Valerie Bares</b>
<b>Annelise Purcell</b>	<b>Alex Cheng</b>	<b>Abigail Smith</b>	<b>Peter Velgersdyk</b>
<b>Natalie Duquaine</b>	<b>Diana Zhu</b>	<b>Avni Jain</b>	<b>Josh Trussell</b>
<b>Michelle Mai</b>	<b>Lauren Knoll</b>	<b>Manashree Padiyath</b>	<b>Flannery Enneking-Norton</b>
<b>Everett Kroll</b>	<b>Milan Jostes</b>	<b>Kathleen Thompson</b>	<b>Ravi Chepuri</b>
<b>Parthiv Krishna</b>	<b>Maxwell Rader</b>	<b>Chris Simmons</b>	<b>Gaurav Behara</b>
<b>Nate Krause</b>	<b>Alexander Fuhrer</b>	<b>Katelyn France</b>	

# Graduate Women in Science

*Graduate Women in Science Award*

Middle School Papers

- **6<sup>th</sup> Grade:** Maggie Banks
- **7<sup>th</sup> Grade:** Natalya Franz
- **8<sup>th</sup> Grade:** Kathleen Thompson



# Graduate Women in Science

*Graduate Women in Science Award*

Middle School Projects

- **6<sup>th</sup> Grade:** Natalie Duquine
- **7<sup>th</sup> Grade:** Manasa Yerriboyina
- **8<sup>th</sup> Grade:** Betsy Hofer

# Graduate Women in Science

*Graduate Women in Science Award*

High School Papers

- **9<sup>th</sup> Grade:** Elizabeth Duerr
- **10<sup>th</sup> Grade:** Kerui Yang
- **11<sup>th</sup> Grade:** Yuxuan Geng
- **12<sup>th</sup> Grade:** Frances Slater

# Graduate Women in Science

*Graduate Women in Science Award*

High School Projects

- **9<sup>th</sup> Grade:** Jackie Busch
- **10<sup>th</sup> Grade:** Kerui Yang
- **11<sup>th</sup> Grade:** Diana Zhu
- **12<sup>th</sup> Grade:** Molly Carroll & Mari Leland



# Broadcom MASTERS

<b>Natalie Duquaine</b>	<b>Annelise Purcell</b>	<b>Alexander Fuhrer</b>	<b>Tim Trussell</b>
<b>Betsy Hofer</b>	<b>Josh Trussell</b>	<b>Montian Natrakul</b>	<b>Iesh Gujral</b>
<b>Maggie Banks</b>	<b>Rikhil Seshadri</b>	<b>Becca Ballard</b>	<b>Yahye Faarah</b>
<b>Megan Morgan</b>	<b>Leihanah Weinacht</b>	<b>Rebecca Kottke</b>	<b>Peter Velgersdyk</b>
<b>Luke Attlesey &amp; John Attlesey</b>	<b>Libby Witcombe</b>	<b>Manasa Yerriboyina</b>	<b>Sebastian Zarkower</b>



# Minnesota Academy of Science

## *Honorable Mention Awards*

### **Animal Sciences**

**Natalie Hua & Jerome Henagin**

### **Behavioral & Social Sciences**

**Maeve Katics & Olivia McNair**

### **Biochemistry**

**Dureti Gamada & Emma Wells**

### **Biomedical & Health Sciences**

**Hemanth Asirvatham & Ava Raffel, Mary O'Grady**

### **Biomedical Engineering**

**Alex Anderson, Siyuan Ma & Anna Zheng**

# Minnesota Academy of Science

## *Honorable Mention Awards*

### **Cellular & Molecular Biology**

**Aarthi Vijayakumar, Michelle Sung & Caden Knutsvig**

### **Chemistry**

**Melia Lachinski & Maggie Brandner**

### **Computational Biology and Bioinformatics**

**Gabrielle Evans & Emmarah Qureshi**

### **Earth & Environmental Sciences**

**Kannon Knutsvig & Claire Wentzlaff**

### **Embedded Systems**

**Dylan Vincent, Nathan Tank & Dillan Niemi, Zackary Peterson**

# Minnesota Academy of Science

## *Honorable Mention Awards*

### **Energy: Chemical**

**Maryama Abdi, Sumaya Karie & Yousef Alsamman**

### **Energy: Physical**

**Elias McCool & Herani Moses, Jarisset Reyes Volcov**

### **Engineering Mechanics**

**Eric Zhou & Lucas Morrison**

### **Environmental Engineering**

**Luke Rowen, Romy Peterson, Trisha Samba & Anna Prchal, Julianna Pankow**

### **Materials Science**

**Adam Pankow & Thomas Murphy**



# Minnesota Academy of Science

## *Honorable Mention Awards*

### **Mathematics**

**Soren Sackreiter & Gavin Wagner**

### **Microbiology**

**Maya Czeneszew, Erica Iliarski & Molly Bills**

### **Physics & Astronomy**

**Max Mills & Abigail Banks-Hehenberger**

### **Plant Sciences**

**Therese Phan & Pery Boyd-Affias**





# Minnesota Academy of Science

*Honorable Mention Awards*

## **Robotics & Intelligent Machines**

**Michael Hall, Daniel Ellis & Nova Midwinter**

## **Systems Software**

**Daniel Fleury, Ambrose Dukek**

# Minnesota Academy of Science

## *Grand Awards*

### Bronze

Abigail Smith	Malachy Bloom	Luke Drummer	Sophia Krikava	Natalya Franz
Makalaeh Kneisel	Preethi Kaliappan	Hannah Mitchell	Dylan Vincent	Brianna Tauer
Nathan Tank	Elisabeth Payne	John Nipp	Annie Lam	Amira Sinclair
Hassan Mehdi	Elizabeth Duerr	Gaurav Behera	Nathan DeMichaelis	Natol Nejo
Ishan Nadkarni	Andrew Cao	Rachel Khodursky	Neil Khadilkar	Natalie Marti
Stanley Kohls	Hemanth Asirvatham	Katelyn Kleiter	Elena Romashkova	Jonathan Quandt
Saahil Chadha	Ariel Butler	Christopher Simmons	Maxwell Rader	Kate Larson
Sam Aronson	Alex Cheng	Addison Gleekel	Melinda Samaratunga	Kianna Young
Jackie Busch	Devika Narayan	Daniel Parney	Camryn Franke	Sidney McFarland
Evan Knoll	Ella Brisbois	Maeve Katics	Arjun Acharya	Layna Erredge
Tanmay Iyer	Will Schmitt	Alharith Dameh	Andrew Sailstad	Kannon Knutsvig
Matthew Trussell	Joseph Mohr	Carissa Chow	Evan Bowen	Noah Johnson
Elizabeth Schwint	Isaac Mauch	Megan Lindow	Owen Finlay	Seth Lindgren
Aliyali Egeh	Benjamin Ertl	Kevin Tortstenson	Emily Sapyta	Christine Song

# Minnesota Academy of Science

## *Grand Awards*

### Siver

Everett Kroll	Katie Lyon	Gregory Johnson	Emma Carr
Katrina Ziells	Louise Kim	Spencer Yueh	Michelle Mai
Haley Jostes	Avni Jain	Ayush Shah	Manashree Padiyath
Luiza Flores	Yuxuan Geng	Morgan Smith	Jordin Weisz
Catherine Pirtle	Lana Trautman	Isabel Dieperink	Valerie Bares
Orion Venero	Leonardo Clarke	Lily Hall	Becca Ballard
Annelise Purcell	Josh Trussell	Rikhil Seshadri	Leihanah Weinacht
Libby Witcombe	Sebastian Zarkower	Tim Trussell	Iesh Gujral
Yahye Faarah	Noah Hasler	Kathleen Thompson	Aili Buytaert
Kiera McCoy	Makenna Grossbach	Emily Coudron	Quentin Hughes
Vaughn Hughes	Hannah Coonan	Brenna McLean	Amanda McKellips
Grace Weitzel	Supriya Roy		

# Minnesota Academy of Science

## *Grand Awards*

### Gold

Molly Carroll	Mari Leland	Kerui Yang	Parthiv Krishna
Flannery Enneking-Norton	Samuel Leville	Abigail Roh	Ravi Chepuri
Milan Jostes	Diana Zhu	Lauren Knoll	Natalie Duquaine
Betsy Hofer	Maggie Banks	Megan Morgan	Luke Attlesey
John Attlesey	Manasa Yerriboyina	Rebecca Kottke	Peter Velgersdyk
Alexander Fuhrer	Montian Natrakul		

A decorative laurel wreath border in a light pinkish-red color frames the text. The wreath consists of two branches of leaves, one on the left and one on the right, curving upwards and then downwards to meet at the bottom.

**Intel ISEF**  
*ISEF Award*  
**State Alternate Winners**

- **Maxwell Rader & Christopher Simmons**
- **Camryn Franke**
- **Liam Morrissey &**
- **Enrique Vazquez**

# Minnesota Academy of Science

2018 ISEF State Finalists

**Parthiv Krishna**

**Alexa M. Reynders & Benjamin  
Q. Larson**

**Louise Kim & Spencer Yueh**





# **We Have Promoted 2 More Projects to ISEF!!**

**This is Complete List of the 2018 ISEF State  
Finalists**

**Parthiv Krishna**

**Alexa M. Reynders & Benjamin Q. Larson**

**Louise Kim & Spencer Yueh**

**Camryn Franke**

**Maxwell Rader & Christopher Simmons**

Thank you to our sponsors!



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