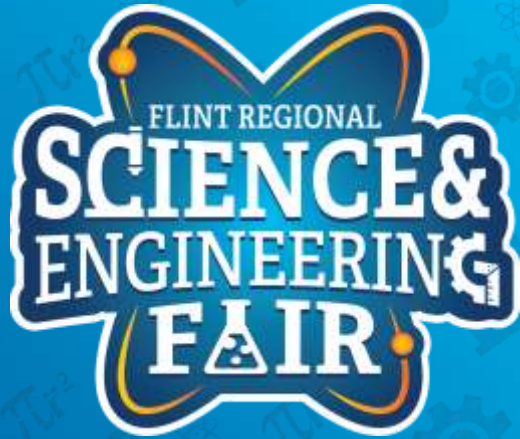




# 2022 Junior Awards



# Welcome

## Students & Guests



# Our Mission

*To inspire and empower curiosity, investigation, and understanding through science and engineering.*

A huge “Thank you!”  
to our hosts...





# Masks are required.

You must wear a mask while indoors at all UM-Flint sites.

Masks are available at the entrance.

# Scientific Review Committee

- Dr. Qazi Azher
- Dr. Andrew Wagner
- Dr. Martha Short
- Brian Weatherdon, P.A.
- Kathy Dutton
- Jordan Krell

The image shows a 'Proposal Form (18)' for the Flint Science & Engineering Fair. The form is titled 'Approval Form (18)' and is divided into sections for 'To be completed by Student and Parent' and 'To be completed by the School or Affiliated Field Site'. It includes fields for project title, student name, parent name, school name, and various checkboxes and signatures.



# FRSEF Board of Directors

- **Mike Mosher, Retired – Kettering**  
President & Operation Services
- **David C. Hill, Retired – Hill Funeral Home**  
Treasurer
- **Jordan Krell, Bosch**  
International Fair Coordinator & Senior Director
- **Kathy Dutton, Homeschool Connections**  
Marketing, Outreach, SRC
- **Dr. Qazi Azher, Hurley Medical Center**  
Medical Community Liaison / SRC
- **Doris Hill, General Motors**  
Grant / Scholarship Chairperson, Head of Judging
- **John Munsell, General Motors**  
Judging Coordinator
- **Jacqueline Ekladyous**  
Secretary
- **Daniel Aistrop, General Motors**  
IT Coordinator
- **Josh Engle, General Motors**  
Judging Coordinator
- **David Dutton, The Scott & Miller Group**  
Marketing/AV
- **John F. Wambaugh, Retired – U.S. Navy**
- **Suresh Tumma**



# Thank You to Our Generous Sponsors



**James A. Welch Foundation**



- Arthur G. Bishop Charitable Trust
- Stella and Frederick Loeb Charitable Trust



# Thank You to Our Generous Sponsors



- Kavita & Suresh Tumma
- Cardiology Association of Port Huron
- Anna Paulina Foundation



# Thank You to Our Generous Sponsors

Kettering  
UNIVERSITY



Michigan Association of Hazardous Materials Professionals

- Mott Community College
- Mid States Bolt & Screw
- A Family Who Believes in Science
- Women's OB-GYN PC of Saginaw



# Special Awards



# Lemelson Early Inventor Prize

- Creating a promising solution to real-world problems
- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Aquatic Life Using Daphnia Magna



# U.S. Metric Association

- Outstanding use of the metric system
- Jamison Mullen
  - The Effect of Water Amount on Grass Growth



# US Navy and Marine Corps

- Excellence in Science, Technology, Engineering and Math
- Winner receives certificate and award packet
  
- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna



# Genesee County Medical Society

- Excellence in Medical Studies
- Winner receives plaque
  
- Anna Hansen
  - Improving Air Quality in Schools Using a DIY Approach



# Hurley Medical Center

- Excellence in Medical Studies
- Winner receives a trophy
  
- Matlyn Miller
  - The effects of acetaldehyde and formaldehyde on cilia movement





# City of Flint – Mayor's Office

- Outstanding achievement in the Flint Science Fair
- Winner receives certificate
- 2022 Junior Division Scientific Achievement
  - Awarded to Grand Prize Award Winner



# Matthew Bauerle Mathematics Award

- Excellence in Mathematics
- Winner receives \$25 Gift Card
  
- Matlyn Miller
  - The effects of acetaldehyde and formaldehyde on cilia movement



# Michigan Association of Hazardous Material Professionals

- Excellence in Environmental Science and Engineering
- Winners receives plaque
  
- Anna Hansen
  - Improving Air Quality in Schools Using a DIY Approach



Michigan Association of Hazardous Materials Professionals



# MIDHHS Explore Lab Science

- Creativity and exploration
- 3<sup>rd</sup> Place: Bronze medallion and certificate
  
- Nav Parikh
  - Does caffeine consumption affect the heart rate?



# MIDHHS Explore Lab Science

- Creativity and exploration
- 2<sup>nd</sup> Place: Silver medallion and certificate
  
- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna



# MIDHHS Explore Lab Science

- Creativity and exploration
- 1<sup>st</sup> Place: Gold medallion and certificate
  
- Matlyn Miller
  - The effects of acetaldehyde and formaldehyde on cilia movement



# Kettering Summer Program – Coding Camp

- Winner attends a summer program at Kettering
- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna



# Ascension / Genesys - Behavioral & Social Science

- Excellence in Behavioral & Social Science
- Winner receives a certificate



- Dilshaan Singh
  - Does gum effect concentration levels





# Ascension / Genesys - Microbiology

- **Excellence in Microbiology**
- Winner receives a certificate
  
- Shiraz Aftab
  - If You Drop It, Should You Eat It?



# Ascension / Genesys - Plant Science

- Excellence in Plant Science
- Winner receives a certificate



- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna



# Ascension / Genesys - Medicine & Health Sciences

- Excellence in Medicine & Health Sciences
- Winner receives a certificate



- Matlyn Miller
  - The effects of acetaldehyde and formaldehyde on cilia movement



# Ascension / Genesys - Cellular & Molecular Biology

- Excellence in Cellular & Molecular Biology
- Winner receives a certificate



- Amaya Shahzad
  - How does the pH level of water affect plant growth?



# Ascension / Genesys – Animal Sciences

- **Excellence in Animal Science**
- Winner receives a certificate
  
- Zaden Guza
  - Algae: It's what's for dinner



Ascension Genesys Hospital



# Ascension / Genesys - Biochemistry

- **Excellence in Biochemistry**
- Winner receives a certificate
  
- Anna Hansen
  - Improving Air Quality in Schools Using a DIY Approach



# Ascension / Genesys - Chemistry

- **Excellence in Chemistry**
- Winner receives a certificate
  
- Jeff Soukhojak
  - Effect of Salt Concentration on Electrochemical Current



Ascension Genesys Hospital



# Ascension / Genesys - Earth & Planetary Science

- Excellence in Earth & Planetary Science
- Winner receives a certificate.



- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna





# Ascension / Genesys - Environmental Science

- **Excellence in Environmental Management**
- Winner receives a certificate.



- **Muhammad Adnan Najjar**
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna



# Ascension / Genesys - Environmental Management

- **Excellence in Environmental Management**
- Winner receives a certificate.



- Anna Hansen
  - Improving Air Quality in Schools Using a DIY Approach



# Bosch Motorsport - Technology for the Fast Track Award

- Project demonstrates excellence in computer science or electrical engineering.
- Winner receives a certificate, Bosch Power Tools kit



- Leela Widmann
  - Antenna length. Which is the most effective?

# Bosch Motorsport - We Set the Pace Award

- Project demonstrates solutions for tomorrow's transportation needs.
- Winner receives a certificate, Bosch Power Tools kit



**BOSCH**

- Jeff Soukhojak
  - Effect of Salt Concentration on Electrochemical Current

# Bosch Motorsport - Invented for Life Award

- Projects that improve quality of life, and that help conserve natural resources
- Winner receives a certificate, Bosch Power Tools kit



- Miriam Moore
  - Are Your Ears In The Clear?

# United States Air Force Award

- Excellence in Science, Technology, Engineering and Math
- Muhammad Adnan Najjar
  - Ur-Ine the Garden: The Effect of Organic and Commercial Fertilizers on Plant Growth and Water Runoff on Aquatic Life Using Daphnia Magna



**U.S. AIR FORCE**



# 100K Ideas – Most Promising Future Business Award

- For outstanding inventors with business applications
- Michaela Witgen
  - Temperature Vs. Fungal Growth



# David and Doris Hill Chemistry Award

- For the novel and creative use of chemistry to solve problems
- Winner receives \$100
  
- Abdul Waleed Ali
  - Dye Bacteria Dye





# Gupta Science Foundation Award

- Creative use of mathematics or medicine
- Winners each receive \$175
  
- Madison Dunk and Audrey Vanvalin
  - How does color affect the way people taste foods/drinks



# Educator of the Year

- \$250 Prize



# Educator of the Year

- Marc Ostrander
  - Perry Innovation Center



# Junior Awards



# Honorable Mention



# Honorable Mention

- Akshara Kanmanthreddy
- Akus Singh
- Ameer Aboughanem
- Ava Patton
- Avani Bhuti
- Brenden Dyer
- Christian Brandt
- Elise Drauch
- Eric Tankersly
- Evalynn Gonzalez
- Evangeline Merkel
- Hannah Thomas
- Jason Porter
- Jonas Weisenbach
- Kaya Arnold
- Logan Gunn
- nate schaefer
- Nevita Wilder
- Riley Early
- Sanaa Khan
- Soren Hills
- Sukhreet Phatra
- Taha Soukar
- Trent Schaefer
- Zaden Guza
- Zayd Mirza



# Research Fellow



# Research Fellow

- Noah Arnold
- Caeden Baker
- Vedha Bhola
- Eshaan Cheema
- Jocelyn Martinez
- Cecilia Pastor
- Sahiljot Singh
- Gabrielle Taylor
- Lucas Tilot
- Jenna Ahmad
- Mahmoud Alhourani
- Abdul Waleed Ali
- Kiara Amin
- Julia Bomba
- Adam Ghanem
- Brooklyn Johnson

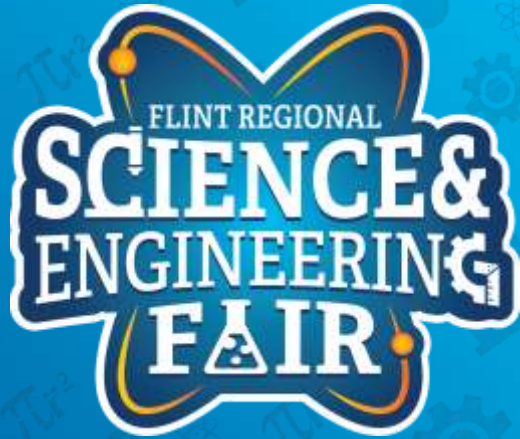




# Research Fellow

- Sukhmani Kaur
- Nirmal Loganathan
- Malik Nichols
- Hiba Noor
- Noyi Chen
- Kanwalpreet Ghotra
- Jia Ginjupalli
- Isabella Guzman
- Bhuvan Srikar Mattupalli
- Solomon Miller
- Londyn Neal
- Aaren Nimmy
- Reyna Silveira
- Dilshaan Singh
- Ruben Singh
- Alex Soukhojak





# Thank You!

**Parents, Teachers. Mentors,  
Family and Friends...**

**Judges and Volunteers...**

for encouraging all these young minds. Our future is in good hands with children like these!

# 6<sup>th</sup> Award



# 6<sup>th</sup> Award

- Kaitlyn Singles
- Jamison Mullen
- Zara Kanjwal
- Preston Walin
- Jeff Liu
- Audrey VanValin + Madison Dunk
- Keith Wheeler
- Maria Maurer
- Isabella Chorley
- Miriam Moore
- Nolah Balbach
- Shiraz Aftab
- Kylie Worthing
- Anna Titsworth
- Shalini Gupta
- Sophie Thomas
- Amos Miller
- Kalyn Guza
- Lily Derani



# 5<sup>th</sup> Award

- \$100 Cash



# 5<sup>th</sup> Award

- \$100 Cash
- Jasleen Kaur
- Andre Wong
- Natalie Smith
- Christina Tibbetts
- Aditya Veera
- Gabriel Haviland + Hunter Clark + Patrick Ireland
- Anna Hansen
- Orion Moya
- Hunter Asbury + Connor Williamson + Maximillian Bladzick



# Broadcom MASTERS

- Premier science competition for middle schoolers in the world
  - Operated by Society for Science (same as ISEF)
  - Top 10% of students at the FRSEF
  - 300 semi-finalists across the United States
  - 30 finalists compete in Washington D.C.
- Online registration
  - You will receive more information in the coming days
  - FRSEF has had many semi-finalists and finalists



# 4<sup>th</sup> Award

- \$200 Cash
- Broadcom MASTER Nominee





## 4<sup>th</sup> Award

- \$200 Cash
- Muhammad Adnan Najjar
- Ayah El-Ganainy
- Nav Parikh
- Gage McCann
- Amaya Shahzad
- Diya Ramakrishnan
- Mariam Alkotob
- Donovan Owens
- Riya Patel
- Cyril McInerney



# 3<sup>rd</sup> Award

- \$300 Cash
- Broadcom MASTERS Nominee



# 3<sup>rd</sup> Award

- \$300 Cash
- **Earth / Environment / Chemistry**
- Aiden Bean
- Jeff Soukhojak
- **Life Sciences**
- Addison Minto
- **Physical Sciences / Engineering**
- Leela Widmann



## 2<sup>nd</sup> Award

- \$350
- Broadcom MASTERS Nominee



# 2<sup>nd</sup> Award – Earth / Environment / Chemistry

- \$350

- Matlyn Miller

- Saginaw Arts & Sciences Academy
- The effects of acetaldehyde and formaldehyde on cilia movement



# 2<sup>nd</sup> Award – Life Sciences

- \$350
  
- Michaela Witgen
  - Saginaw Arts & Sciences Academy
  - Temperature Vs. Fungal Growth



# 2<sup>nd</sup> Award – Physical Sciences / Engineering

- \$350
  
- Tucker Gratsch
  - Davison Middle School
  - Bridge Bracing



# 1<sup>st</sup> Award

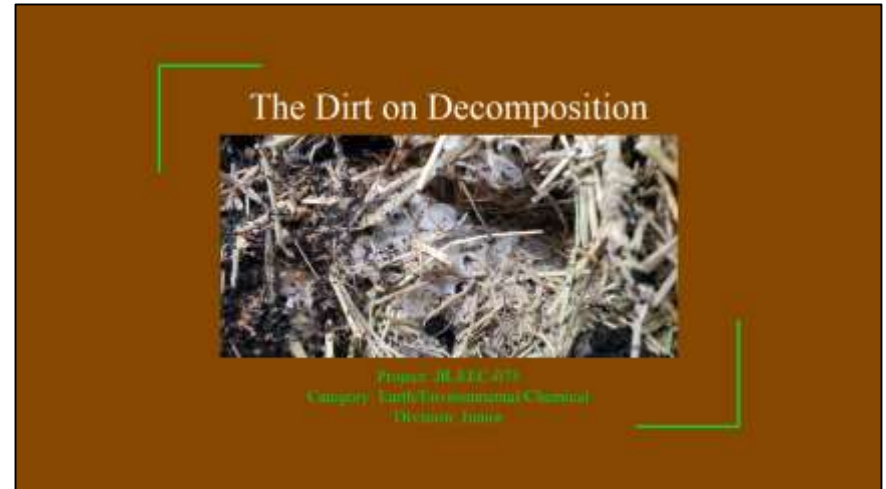
- \$400
- Certificate from the Mayor of Flint
- Broadcom MASTERS Nominee





# 1<sup>st</sup> Award – Earth / Environment / Chemistry

- \$400
- Certificate from the Mayor of Flint
- Broadcom MASTERS Nominee
  
- Ryan Fox
  - Davison Middle School
  - The Dirt on Composition



# 1<sup>st</sup> Award – Life Sciences

- \$400
- Certificate from the Mayor of Flint
- Broadcom MASTERS Nominee
  
- Bilal McLaughlin
  - Genesee Academy
  - Delayed-Release Fizzy Tablets



# 1<sup>st</sup> Award – Physical Sciences / Engineering

- \$400
- Certificate from the Mayor of Flint
- Broadcom MASTERS Nominee

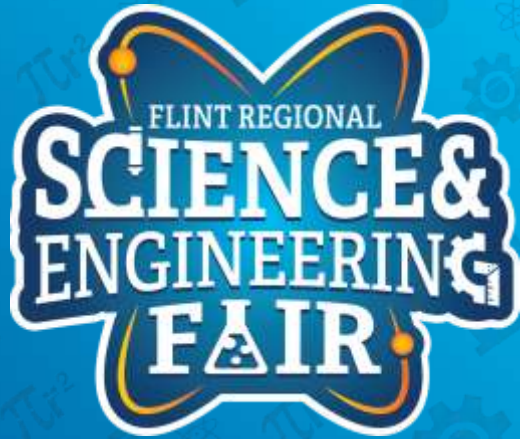
- Peyton Rowe
  - Davison Middle School
  - Protecting from the Sun!



# Grand Prize

- An Additional \$100
  
- Bilal McLaughlin
  - Genesee Academy
  - Delayed-Release Fizzy Tablets





Awards and certificates will be mailed to everyone not in attendance.

Projects will be available for viewing at ***[flintsciencefair.org](http://flintsciencefair.org)***



**Thank You  
for attending.**

**See you next year!**

visit us online:  
***[flintsciencefair.org](http://flintsciencefair.org)***











