

**GLOBE Midwest Student Research Symposium**  
**“Public Health and Our Environment”**  
**Special Thanks-WSU School of Medicine Office of Diversity and**  
**Inclusion**  
**Tweet Photos and Highlights to #GLOBE\_SRS2018**



**WAYNE STATE**  
**School of Medicine**



**Friday, May 18, 2018**

- 3:30 – 5:00 Residence Check In at Yousif B. Ghafari Hall
- 5:15 – 5:45 Check In for Symposium – School of Medicine – Scott Hall (Jaffar Auditorium)
- 6:00 Pizza Dinner – Scott Hall (Jaffar Auditorium)
- 6:30 Pre-Evaluation with Haley Wicklein
- 6:45 “Earth Observations Applied to a Changing World: NASA Health and Air Quality Applications,” with John Haynes, Program Manager-Health and Air Quality Applications-NASA
- 7:20 Depart for the Detroit Institute of Arts
- 7:35 Self – Guided Tours (by school) at the Detroit Institute of Arts

**(Special thanks to the Detroit Institute of Arts for providing admission for our symposium participants – Please note, it will be a busy night because there will be a MEMBERS Only Preview of a new Star Wars exhibit)** Just a few rules we need to follow:

- We will enter as a group behind the museum on John R.
- Backpacks are not allowed.
- Food, drink, candy, and gum is not allowed.
- You may take pictures, but flash is not allowed.
- Stay 18 inches away from all artwork.
- We will guide ourselves in small groups, by schools and chaperones.

Highlights Include:

- Making Home: Contemporary Works from the DIA
- Play Ball! Baseball at the DIA
- Drop-In Workshop: Paper Dolls (until 9:00 pm)
- Drawing in the Galleries (until 9:00 pm)
- Friday Night Live! Corn Potato String Band

- 9:35 Depart the DIA to return to Yousif B. Ghafari Hall

**Saturday, May 19, 2018**

- 7:00 Check-Out of Yousif B. Ghafari Hall
- 7:30 Bus from Ghafari Hall to School of Medicine
- 8:00 Group 1 and 2 Poster Set Up -- 2206/2238 Scott Hall (Location TBD)

8:00 – 9:00 Breakfast – Scott Hall (Blue Auditorium)  
 9:00 Welcome Messages

- David Bydlowski, AREN Project/Wayne RESA
- Dr. Anil Aranha and Dr. Herbert Smitherman – WSU School of Medicine
- Dr. Tony Murphy and Haley Wicklein – GLOBE
- Brian Campbell – NASA
- Lisa Perez – US Forest Service
- Dr. Kevin Czajkowski, University of Toledo

9:30 Overview of the Symposium  
 10:00 Group 1 Poster Review -- 2206 Scott Hall

Name(s)	School	State	Grade	Project Title
Faith Brown; Ingrid Ramos; Elianys Cruz; Vanessa Ruiz	Clippert Multicultural Honors Academy	MI	Middle School	
Hassan Fawaz, Kristian Manivilovski, Jordon Horton	Crestwood High School	MI	High School	Relationships between Surface and Near Surface Temperatures Based on Multiple Ground-Level Parameters During Michigan Winters
Sara Komaiha, Leanne Alawieh, MaysamAidibi	Crestwood High School	MI	High School	Analysis of Data Collected During the 2017 Solar Eclipse at Eighty Percent Totality
Kyan Wilson	Cass Tech High School	MI	High School	Urban Cities: A 'Taste' of History
Tasia Kimbrough	Thirkell Middle School	MI	Middle School	Which water will Provide the Most Beneficial Supply of Vital Nutrients?
Leah Bouwman	Grosse Ile Middle School	MI	Middle School	Grosse Ile, Michigan - Integrated Hydrology Study
Sydney McLaney and Royce Hutchinson	Natural Science Technology Center	OH	High School	Relationship Between Air and Water Pollution
Ava Lytten, Paige Staler	Navarre Elementary	OH	Middle School	Investigation of Benthic Macroinvertebrates in Toledo, Ohio and Homer, Alaska
Dominic Arnold	Navarre Elementary	OH	Middle School	Investigation of Surface Temperatures of Rural (Bowling Green State University) and Urban (University of Toledo) Land Areas
Jasmine Connerton	Navarre Elementary	OH	Middle School	The Investigation of Different Macroinvertebrates in California and New York
Lester McManaway, Devon Owens	Navarre Elementary	OH	Middle School	Surface Temperature Differences Between Poland and Croatia
Marissa Rahmel,	Navarre Elementary	OH	Middle School	Investigation of pH and Temperatures in Freshwater Streams in North Carolina and Minneapolis
Mireya Balderas, Tamarra Hogan	Navarre Elementary	OH	Middle School	California vs. Florida Water Temperature

Quinn Burgei and Brady Jaskula	Shumate Middle School	MI	Middle School	Shumate Middle School - Soil Moisture Study
Jasmine Corley	Waite High School	OH	High School	Urban and Rural Surface Temperature

10 – 12:00 Carbon Cycle Teacher Professional Development with Haley Wicklein  
– Scott Hall (Blue Auditorium)  
11:00 Group 2 Poster Review – 2238 Scott Hall

Name(s)	School	State	Grade	Project Title
Ali Al-Zuad, Ankur Patel, Majde Kekhia	Crestwood High School	MI	High School	Budburst and Spring Phenology in Southeastern Michigan
Jaron Hsu, Hady Saad, Rami Shams	Crestwood High School	MI	High School	Relationships between Surface Albedo and Seasonal Phenology
Takyra Jones	Henry Ford Academy	MI	High School	Urban Rivers / Urban Waters
Tanae Jones	Thirkell Middle School	MI	Middle School	Which Will Provide the Healthiest Drinking Water: Detroit River or Detroit Tap?
Nia Patton	Thirkell Middle School	MI	Middle School	Does Sunscreen Really Protect Your Skin from Harmful UV Rays?
Keshaun Preston and Dajour Walker	Natural Science Technology Center	OH	High School	Filtering Water Through Back-Country Equipment
Abbigayle Pfaff, Ashley Watson	Navarre Elementary	OH	Middle School	Air Temperature: Shumate Middle School vs. Lake High School
Alexa Byers, Navaeh Cruz	Navarre Elementary	OH	Middle School	Surface Temperatures in La Mesa, California and Toledo, Ohio
Deja Gilland, Alivia Morrow	Navarre Elementary	OH	Middle School	Comparing Atlantic and Pacific Ocean Temperatures using data from Florida and California
Heavyn Hale	Navarre Elementary	OH	Middle School	Differences of Air Temp and Levels of Precip in Toledo, OH and San Diego, Cali
Jerzie Green	Navarre Elementary	OH	Middle School	The Investigation of Surface Temperatures in Paris and Spain
Luis Gamez, Lonzell Johnson	Navarre Elementary	OH	Middle School	Comparing Surface Temperatures in Ukraine and Chile
Melany Bolden	Navarre Elementary	OH	Middle School	Pennsylvania Water pH vs.Louisiana Water pH
Raquel Collins	Navarre Elementary	OH	Middle School	Air Temperature and Precipitation Levels In Ohio And Texas
Kaydin Fowler and Kylie Iwasko	Shumate Middle School	MI	Middle School	Common Clouds in Southeast Michigan
Gracie Bylow	St. Patrick	MI	Middle School	Astro Photography:Using X-Ray Images to Indicate Temperature and Energy Patterns in the Atmosphere

Gayle Corthell and Danielle Depew	Waite High School	OH	High School	Mother Nature vs. Climate Change
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12:00	Lunch – Scott Hall (Blue Auditorium)
12:45	Reflections on the Symposium
1:00 – 3:30	Student Workshops – 30 Minute Rotating Sessions <ul style="list-style-type: none"> <li>• “Kites and the AREN Project,” with David Bydlowski and Andy Henry – 240-241 Mazurek (Groups 1, 2, 3, 4)</li> <li>• “Medical/Health Careers Medical School,” with Joseph Weertz – 242-243 Mazurek (Groups 2, 3, 4, 1)</li> <li>• “NASA Earth Science, GLOBE and Citizen Science,” with Brian Campbell – 301-302 Mazurek (Groups 3, 4, 1, 2)</li> <li>• “US Forest Service and Citizen Science” with Lisa Perez – 303 – 304 Mazurek (Groups 4, 1, 2, 3)</li> </ul>
3:30	Reflection/Evaluation – Scott Hall (Blue Auditorium)
3:45	Awards and Thanks – Scott Hall (Blue Auditorium)
4:00	Closing

Group 1 Afternoon	Group 2 Afternoon	Group 3 Afternoon	Group 4 Afternoon
Faith Brown	Ingrid Ramos	Vanessa Ruiz	Maysam Aidibi
Ali Al-Zuad	Leanne Alawieh	Hassan Fawaz	Jordan Horton
Jaron Hsu	Majde Kekhia	Sara Komaiha	K. Manivilovski
Ankur Patel	Hady Saad	Rami Shams	Leah Bouwman
Royce Hutchinson	Sydney McLaney	Keshaun Preston	Dajour Walker
Dominic Arnold	Mireya Balderas	Melany Bolden	Alexa Byers
Raquel Collins	Jasmine Connerton	Nevaeh Cruz	
	Luis Gamez	Deja Gilland	Jerzie Green
Heavyn Hale	Tamarra Hogan	Lonzell Johnson	Ava Lytten
Lester McManaway	Alivia Morrow	Devon Owens	Abbigayle Pfaff
Marissa Rahmel		Paige Staler	
Ashley Watson	Quinn Burgei	Kaydin Fowler	Kylie Iwasko
Brady Jaskula	Gracie Bylow	Takyra Jones	Tanae Jones
Tasia Kimbrough	Nia Patton	Kyan Wilson	Gayle Corthell
Danielle Depew	Gathern Monhollon	Lamarcus Neal	