

58th Annual  
Southeastern Michigan Regional  
**Junior Science and Humanities Symposium**

Friday, February 25, 2022

**VIRTUAL**

Please make sure your name is  
displayed on your screen



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# WELCOME

**8:30 a.m. - 9:00 a.m. CHECK-IN, CONFIRMATION & ZOOM LOG-IN**

**9:00 a.m. - 10:00 a.m. OPENING SESSION**  
*Zoom Live General Session*

***PRESIDING - LAND ACKNOWLEDGEMENT & ORIENTAION:***

**Dr. Sandra Yarema**

Regional Director – JSHS

Associate Professor, Science Teacher Education  
College of Education, Wayne State University



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# Land Acknowledgment

In recognizing that Wayne State University, has hosted the JSHS for 57 years, we would like to acknowledge that the campus rests on **Waawiyaataanong**, also referred to as Detroit.

These lands are the ancestral and contemporary homeland of the Three Fires Confederacy, granted by the Ojibwe, Odawa, Potawatomi, and Wyandot nations, in 1807, through the Treaty of Detroit.

We affirm Indigenous sovereignty and honor all tribes with a connection to Detroit. With our Native neighbors, We can advance educational equity and promote a better future for the earth and all people



WAYNE STATE UNIVERSITY



# WELCOME

**9:00 am**

**WELCOME/OVERVIEW**



**Dr. Ingrid Guerra-Lopez**

Interim Dean, College of Education

Wayne State University



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# ZOOM “Netiquette”



- Please be courteous to other participants.
  - Use *mute* unless you are presenting
  - You may keep your camera OFF until it is your turn to present
  - Please stay in the breakout room until the presenter has finished
  - Use *PRIVATE CHAT* feature when possible
  - Utilize *SPEAKER VIEW* during keynote address & general sessions
  - Make sure your name is displayed in your “square”
  
- Oral and Poster presentations are organized by category; you will be assigned to a break-out room to be evaluated by judges qualified in that subject area. These are listed in the program .
  - Any supporting guests who wish to attend just to see your presentation should log in by 9:45, to be assigned to the appropriate break-out room.



# Social Media Sharing



**Share on Social Media throughout the day:**

**#JSHSRegionals**

**#JSHSNationals**

**#JSHS**

**@NtIJSHS**

**@NationalJSHS**

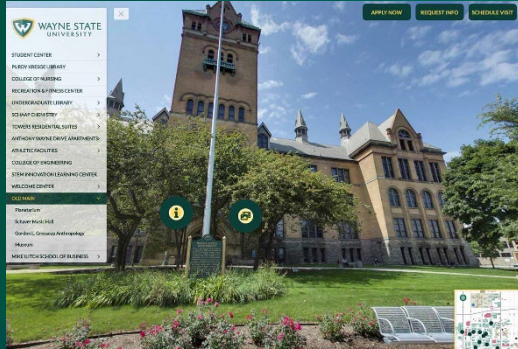


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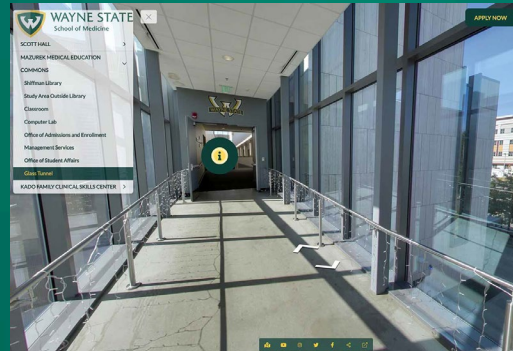
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# VIRTUAL Campus/Lab Tour

**Links to Tours-**  
**will appear in chat multiple times during the day**



**Main Campus**



**School of Medicine**



**Law School**

**\* Judges- Please email me score sheet &  
rubrics when you have them**  
**Presenters- come back at 12 noon**



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# VIRTUAL Campus/Lab Tour

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## Main Campus

<https://www.massinteract.com/wayne-state-university/#24471640p,29,13h,97,01t>

## School of Medicine

<https://www.massinteract.com/wayne-state-university-med-school/#30753338p&1,15h&96,55t>

## Law School

<https://www.massinteract.com/wayne-state-university-law-school/#31151886p&273,89h&96,31t>

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# ORAL PRESENTATIONS

**10:00 am – 12:00 pm**

**Presentation of Papers**

**(Join one of 5 Assigned Break-Out Rooms)**

**I. Medicine & Health Behavioral Science**

**II. Biomedical Science**

**III. Biochemistry & Environmental Science**

**IV. Engineering, Technology & Physical Science**

**V. Mathematics & Computer Science**



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# ORAL PRESENTATIONS Group I

## Medicine & Health Behavioral Science

***MODERATOR:*** Dr. Kimberly Derryberry

***STUDENT PRESENTERS:***

- Sarah Abubaker
- Sanjidah Ahmed
- Manish Ileni
- Mounika Katta
- Nadia Niha
- Debarati Roy
- Andy Yao

***JUDGES:***

- Shruti Jha
- Isabella Cubillejo
- Dr. Russell Finley



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# ORAL PRESENTATIONS Group II

## Biomedical Science

***MODERATOR:*** Dr. Jennell White

***STUDENT PRESENTERS:***

- Sohan Madishetty
- Sanjana Pingili
- Rania Rafiq
- Tahsina Rahman
- Diya Ramesh
- Eric Wan

***JUDGES:***

- Lt. Colonel (ret.) David Centeno Jr.
- Jonathan Panzer
- Marion Tate



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# ORAL PRESENTATIONS Group III

## Biochemistry & Environmental Science

***MODERATOR:*** Dr. Cristine Chow

***STUDENT PRESENTERS:***

- Kasey Conklin
- Keerthana Danasekaran
- Veda Mantena
- Na'ja Stokes
- Sonnet Xu
- Jibraan Rahman



***JUDGES:***

- Tracy D'Augustino
- Mike Fraker
- Catherine Riseng
- Brandon Schroeder



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# ORAL PRESENTATIONS Group IV

## Engineering, Technology & Physical Science

***MODERATOR:*** Mr. Greg Chappelle

***STUDENT PRESENTERS:***

- **Jonathan Bryant**
- **Drue Keys**
- **Mikul Saravanan**



***JUDGES:***

- **Thomson David**
- **Mohsen Dianat**
- **Jasmine Roberson**
- **Christopher Scott**



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# ORAL PRESENTATIONS Group V

## Mathematics & Computer Science

***MODERATOR:*** Ms. April Hines-Jenkins

***STUDENT PRESENTERS:***

- Noah Black
- Vikram Goddla
- Michelle Hua
- Julia Huang



***JUDGES:***

- David Daniszewski
- Lonnie Freiburger
- Andrew Kosinski
- David Lamb
- Danielle Nelson



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# VIRTUAL LUNCHEON

**12:00 – 1:00 p.m.**

**Zoom Live**

**SPEAKER: JSHS ALMNI FINALIST**

**Nikhil Mantena— Where is He Now?**



**Nikhil Mantena, finalist at the 2017, 2018, 2019, & 2020 Regional JSHS, will talk about his research experiences during high school and how his participation in the JSHS has impacted his college experience and future research interests.**



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# Virtual Luncheon

**12:00 p.m. – 1:00 p.m. Zoom Live**

## ***PRESIDING:***

**Dr. Sandra Yarema  
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## ***ANNOUNCEMENT OF FINAL STUDENT PAPERS***

- The regional finalists will advance to National JSHS, IN –PERSON, April 20- 23, 2022; in Albuquerque, NM (All Expenses Paid by AEOP)
- **Place Ranking will be determined in the Final Judging Session at 3:00 pm**



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# 1:00 - 2:00 p.m. Poster Session Zoom Break-out Room

***MODERATOR:*** Ms. Marion Tate

***STUDENT PRESENTERS:***

- Aanchal Jain
- Yara Mashal

***JUDGES:***

- Brad Brumm
- Dr. Truman Hudson, Jr.
- Charles Sylvester



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# KEYNOTE ADDRESS

**2:00 p.m. - 3:00 p.m. (Zoom Live)**

## ***KEYNOTE SPEAKER:***

**Dr. Amanda Bryant-Friedrich**

**Dean, Wayne State University Graduate School  
Professor of Pharmaceutical Sciences**



## ***TOPIC:***

Dean Bryant Friedrich will discuss *The Treatment of Infectious Disease: The Role of Nucleic Acids*. Nucleic acids are vital players in our understanding of many infectious diseases and their treatment. We will discuss the chemistry, modification and utilization of nucleic acids from the prospective of pharmaceutical chemistry.



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# FINAL JUDGING (Zoom Live)

**3:00 p.m. – 5:00 p.m.**

**Determine National JSHS Finalist Ranking**

**(Judges Deliberation in Breakout Room after presentations)**

***Moderator:* Dr. Karur Padmanabhan**

***Presenters:***

- ***Mounika Katta***
- ***Diya Ramesh***
- ***Sonnet Xu***
- ***Jonathan Bryant***
- ***Michelle Hua***

***Judges:***

- **David Brown**
- **Dr. Yuan He**
- **Brandon Schroeder**



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# Publicity Request

Our host institution, Wayne State University, would like to invite you to be part of the  
*STEM RESEARCH WARRIORS' INITIATIVE.*

Your responses to this survey will enable us to showcase you and share your research experience within the community.

Please complete the survey using the link posted in the chat:

[https://waynestate.az1.qualtrics.com/jfe/form/SV\\_2rFNfWy0qJ1neMm](https://waynestate.az1.qualtrics.com/jfe/form/SV_2rFNfWy0qJ1neMm)



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# Publication Opportunity

**Please note page 2 of your program for links:**

- Students who presented a paper at this year's JSHS are encouraged to submit their paper for publication.
  - Students planning to submit their paper for publication should first consult with their research mentor(s) and anyone else who collaborated in their research.
  - Before submission: check the journal's website and closely follow instructions under Submission.
- **JOURNEYS – Journal of Youths in Science**
  - **The Journal of Emerging Investigators**



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# AWARDS PRESENTATIONS (Zoom Live)

**5:00 p.m. (As soon as judges submit final scores)**  
**Presentation of Student Speaker Finalist Awards &  
Regional Poster Prizes**

**Dr. Sandra Yarema**



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