

STARK STATE COLLEGE HONORS PROGRAM PRESENTS



2019
**Student
Symposium**
Celebrating
Excellence



creativity dedication
determination perseverance
excellence

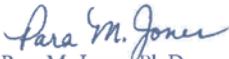
Dear Students,

Welcome and thank you for participating in Stark State College's Student Symposium, designed to enrich and showcase our students' academic achievements and technical skills. Thank you for taking the time and putting forth the effort and initiative to participate in this event to celebrate *your* academic excellence.

Activities such as the Student Symposium complement your work in the classroom; enhance critical thinking, communication and presentation skills; demonstrate a level of project management skills; and provide another opportunity to develop academically and professionally. An added and equally valuable benefit is the opportunity to work closely with our dedicated faculty, who have impressive academic credentials and professional experience to share with our students. This experience will serve you well in your career and/or further education.

Thank you for investing the extra time and work in your education and success!

Sincerely,


Para M. Jones, Ph.D.
President
Stark State College

Keynote speakers



Torsten Hegmann, PhD

The path from basic science to applicable technology

Dr. Torsten Hegmann received his PhD in 2001 at the Martin Luther University Halle in Germany, and after postdoctoral research at Queen's University in Kingston, Ontario, he started his independent academic career at the University of Manitoba. In 2011, Dr. Hegmann moved to Kent State University, where he is now a professor and Ohio Research Scholar at the Advanced Materials and Liquid Crystal Institute at Kent State with appointments in the chemical physics interdisciplinary program and the department of chemistry and biochemistry. He also serves as the associate director of the Institute. In 2017, Dr. Hegmann was elected a Fellow of the Royal Society of Chemistry. He has published about 100 articles (17 of those featured on journal covers), secured 10+ patents, and serves as chief scientific officer in a start-up company developing sensors.



Elda Hegmann, PhD

Making Cells Feel Right at Home – the importance of mechanical properties in tissue engineering scaffolds

Dr. Elda Hegmann earned her PhD in 2003 at Université Laval in Québec. She pursued postdoctoral research positions at Queen's University in Kingston, Ontario; University of Manitoba in Winnipeg; and in a federal lab at the National Research Council Canada (NRC) in Winnipeg. She then began her independent career as a research officer at the NRC before joining the Advanced Materials and Liquid Crystal Institute at Kent State University in 2011 as assistant professor within the department of biological sciences and the chemical physics interdisciplinary program. Dr. Hegmann's research has produced several peer-reviewed articles and three patents. She also serves as the CEO of a start-up company involving gas and vapor sensors.

Agenda

8-8:45 am	Registration and poster set up M100
9-9:10 am	Opening remarks Para Jones, PhD, President, Stark State College M100
9:15-10:25 am	SESSION I Theatre performance - M101 Student club demonstration - B110 Oral presentations - B100, B102, B106, B109
10:30 -10:55 am	Intermission - M100 Refreshments Music by Green High School Jazz Ensemble
11 am-12:10 pm	SESSION II Posters - M100 Student club demonstrations – M101, B110, B125 Oral presentations - B102, B106, B109
12:15-12:45 pm.	Keynote speakers Torsten Hegmann, PhD Elda Hegmann, PhD M100
12:45-1 pm	Awards Recognition of Honors Program graduates and new students Closing remarks Fedearia Nicholson-Sweval, PhD, Dean M100

Symposium committee chairs

Beth Albrecht / Annissa Langworthy / Therese Revlock

Special thanks

Kathy Feichter / Joanna Frailly / Glen Goe / Amanda Hinkle
Jacqueline Hostetler / Val Mayle / Jo Monroe / Dan Schweitzer / Amy Shriner
Jerry Snay / Computer Services / Facilities and Maintenance
Marketing Department / Security

Student presentations

Some presentations may contain mature language

**Denotes member of Honors Program*

SESSION I

THEATER PERFORMANCE DEMONSTRATION - M101

Matthew Baker*, Nicole Graham, Clarke Coughlin, Miles Robinson
Stark State College

Stark Stage Theater's, "The Odd Couple"

9:15am-10:15am / M101 / Advisor: Robert Berens

DEMONSTRATION - B110

James Quinn, Mark Sweeney

Stark State College

Malware's Lateral Movements

9:15 - 9:45 am / B110 / Advisor: Glenn Goe

ORAL PRESENTATIONS - B100

Alma Amawi, Mona Alhmeidi-Abueteen

Stark State College

Esterification of Vanillin

9:15 – 9:30 am / B100 / Advisor: Amy Jo Sanders, PhD

Daniel Kravchenko, Michael Phillips, Jeff Bratanov

Stark State College

Website Wanderbite

9:30 - 9:45 am / B100 / Advisor: Larry Ray, PhD

Rhiannon Wooten-Moyer*, **Kevin Rodrigues-Alves**
Stark State College
Saponification of Avocado Oil
9:45 - 10:00 am / B100 / Advisor: Amy Jo Sanders, PhD

Madison Keener, Samarah Lemus
Stark State College
Green Aldol Condensation Using a Biocatalyst
10:00 - 10:15 am / B100 / Advisor: Amy Jo Sanders, PhD

ORAL PRESENTATIONS - B102

Alana Hopson
NIHF STEM High School
She STEMs From Me
9:15 - 9:30 am / B102 / Advisor: Kathleen Metcalf

Jalen Jackson
Stark State College
Crohn's Disease Disruption of Digestion
9:30 - 9:45 am / B102 / Advisor: Annissa Langworthy

Colin McCauley, Austin Clapper, Ben Eisel
Stark State College
Synthesis of Biodiesel
9:45 - 10:00 am / B102 / Advisor: Amy Jo Sanders, PhD

Madelynn Zarembka
NIHF STEM High School
Environmental Heroes Club
10:00 - 10:15 am / B102 / Advisor: Kathleen Metcalf

ORAL PRESENTATIONS - B106

Jasmine Rollins, Riley Deskin, Erin Patterson

Glen Oak High School/International Baccalaureate

Human Effects on the Environment

9:15 - 9:30 am / B106 / Advisor: Nathan Bodenschatz

Natalie Michael, Ava Lambert, Claire Foltz

Glen Oak High School/International Baccalaureate

The Impacts of Falling Space Trash on the Environment

9:30 - 9:45 am / B106 / Advisor: Dori Hess

Madison Mears, Joseph Harper, Megan Jacobs

Glen Oak High School/International Baccalaureate

How Human Intervention Affects Crop Efficiency

9:45 - 10:00 am / B106 / Advisor: Dori Hess

Chad Brechbuhler, Samantha Fleming, Aaron Sommers

Glen Oak High School/International Baccalaureate

Biological/Chemical Pollution in Lake Erie Tributaries

10:00 – 10:15 am / B100 / Advisor: Dori Hess

ORAL PRESENTATIONS - B109

Logan May, Maggie Juarez, Grace Watson

Glen Oak High School/International Baccalaureate

Effects of Fossil Fuels Combustion on Environment

9:15 - 9:30 am / B100 / Advisor: Nathan Bodenschatz

Lydia Jarka*

Stark State College

Preventable Blindness: Chlamydia Trachomatis

9:30 - 9:45 am / B109 / Advisor: Beth Albrecht, PhD

Samantha Middaugh, Angela Main

Stark State College

Lactone Synthesis

9:45 - 10 am / B109 / Advisor: Amy Jo Sanders, PhD

Clay Cooper

Stark State College

Physical Effects of PTSD

10-10:15am / B100 / Advisor: Annissa Langworthy

SESSION II

POSTERS - M100

Enrique Antonio

Stark State College

The 500 Days of Summer Effect

Advisor: Nicole Cleland, PhD

Jacob Boyett, Karley Brightman, Marah Banks

Glen Oak High School/International Baccalaureate

Ecological Effects of Dams on Local Waterways

Advisor: Dori Hess

Lydia Jarka*

Stark State College

Acanthomeba Keratitis

Advisor: Annissa Langworthy

Marisa Macrides

Jackson High School /Stark State College, College Credit Plus

Microplastics in Our Oceans

Advisor: Ebru Buyuktanir, PhD

Vance Mayle

Stark State College

Open Heart Surgery

Advisor: Heather Gasaway

Colin McCauley, Ellie Miller

Stark State College

Effect of Road Salt on Stream Quality

Advisor: Curtis Clevenger, PhD

Morgan Miller*

Stark State College

Responsiveness of Hydrogel Beads in Varying Solutions

Advisor: Ebru Buyuktanir, PhD

Sarah Saunders, Angelina Sacco, Darrion Williams
Glen Oak High School/International Baccalaureate
Human Effects of Nuclear Energy on the Environment
Advisor: Dori Hess

Michelle Starcher
Stark State College
Brain-Eating Amoeba
Advisor: Beth Albrecht, PhD

Sheetal Tallada
Glen Oak High School/AP Biology
Natural Compounds Curcumin and Nicotinamide ... Parkinson's
Advisor: Dori Hess

Rhiannon Wooten-Moyer*
Stark State College
Spectroscopic Analysis of Urea w/Water and Glycidol
Advisor: Michael Tubergen

DEMONSTRATION - M101 —————

Ben Johnson, Cody Brimston, Sam Carnahan, Brooke Berbari
Stark State College
Red Light, Green Light
11:30 am – noon / M101 / Advisor: James Worley

DEMONSTRATION - B110 —————

Cordell Floyd, Brooke Lauer, Lillian Adams
Glen Oak High School/International Baccalaureate
Bringing Down the Space Station
11:00 – 11:30 am / B110 / Advisor: Nathan Bodenschatz

DEMONSTRATION - B125 SILK AUDITORIUM —————

Owen Valentine, Deanna Hay, Abigail Thomas
Glen Oak High School/International Baccalaureate
Acid Rain
11-11:30 am / B125 / Advisor: Nathan Bodenschatz

Kareemat Melaiye
NIHF STEM High School
Light Alert
11:30 am – noon / B125 / Advisor: Kathleen Metcalf

ORAL PRESENTATIONS - B102

Janelle Dixon, Hannah Tapyrik, Olivia White
Glen Oak High School/International Baccalaureate
How Mankind's Control Over Lead Affects Environment
11:00 – 11:15 am / B102 / Advisor: Dori Hess

Margaret Kingsbury, Aleksa Shinaberry, Arianna Sieloff
Glen Oak High School/International Baccalaureate
Climate Change's Effects on Carbon Dioxide
11:15 - 11:30 am / B102 / Advisor: Dori Hess

Drew Ely, Lawren Daya, Bryce Conn
Glen Oak High School/International Baccalaureate
Effects of Fracking on the Environment
11:30 - 11:45 am / B102 / Advisor: Nathan Bodenschatz

Taylor Bautista, Madison Knight, Logan Sparks
Glen Oak High School/International Baccalaureate
Global Warming and Its Effects on Animals in Ecosystem
11:45 - noon / B102 / Advisor: Nathan Bodenschatz

ORAL PRESENTATIONS - B106

Cheridan Danzy
Ohio Distance and Electronic Learning Academy
Fear of Missing Out (FOMO)
11:00 – 11:15 am / B106 / Advisor: Karen Padrutt

Zaria Porter
NIHF STEM High School
Mediation
11:15 - 11:30 am / B106 / Advisor: Kathleen Metcalf

Morgan McNeeley
NIHF STEM High School
#WomanUp
11:30 - 11:45 am / B106 / Advisor: Kathleen Metcalf

Barbara Juhasz
Stark State College
What Can You Do to Stop Human Trafficking?
11:45 - noon / B106 / Advisor: Jennifer Smith

ORAL PRESENTATIONS - B109

Anthony Brown
NIHF STEM High School
21st Lessons
11:00 – 11:15 am / B109 / Advisor: Kathleen Metcalf

John Meeks
Jackson High School /Stark State College, College Credit Plus
Artificial Intelligence: A Look Into Our Future
11:15 - 11:30 am / B109 / Advisor: Karen Padrutt

Natalie James
Stark State College
Clutter Causing Anxiety
11:30 - 11:45 am / B109 / Advisor: Karen Padrutt

Leonte Cooper*
Stark State College
The Widening Gyre
11:45 - noon / B109 / Advisor: Tom O'Brien

Thank you

Green High School Jazz Ensemble

Saxophones	Garrison Barker Zach Ellis David Prexta Anthony Santucci
Trombones	Ben Avila Bryan Beasley Nathan Byers Elise Woodford
Trumpets	Xavier Adekunla Drew Elliott Sarah Kolesar Nick Seilor Ethan SirLouis Michael Stevenson Joshua Thumb
Bass	Bryan Crosier
Guitar	Cal Flory
Piano	Ella Breon
Drums	Michael Wells

Volunteers

Joanna Frailly / Matt Gacura / Carol Halmasy / Dori Hess / Lori Hudnall
Para Jones, PhD / Wendi Keller, PhD / Albert Koomsen / Karen Padrutt
Dwight Parrish / Paul Pavka / Edmund Priddis / Heather Roszczyk
Martina Sharp-Grier / Amy Shriner / Anna Shivers / Kyle Terakedis
Jim Treacle / Joanna Treacle / Chase Vance

Thank you for your support

City of Akron Mayor's Office
AYSCO Security Company, Kent Ohio
Continuing Healthcare Solutions of Cuyahoga Falls
Jay Auto Group

Thank you for coming

Plan to join us next year at
Stark State College's Annual Student Symposium.
www.starkstate.edu/symposium

Symposium presented by Honors Program Oversight Committee (HPOC)

Fedearia Nicholson-Sweval, PhD, Dean

Jennifer Smith, Chair

Ebru Buyuktanir, PhD, Vice Chair

Beth Albrecht, PhD

Claudia Barr

Nicole Cleland, PhD

Marie Cox

Paul Custer, PhD

Annissa Langworthy

Monica Miklo, DC

Thomas O'Brien

Therese Revlock, EdD

Catherine Rock, PhD

Amy Jo Sanders, PhD

Andrew Stephan, Dean





Stark State College Honors Program Mission Statement

The Stark State Honors Program is dedicated to providing high-achieving first-time, transfer, and currently enrolled students with a broad scope of academically challenging, culturally enriching experiences in preparation for leadership roles in university, career, community, and lifelong initiatives.

For more information

visit the Honors Program table at today's event
go to www.starkstate.edu/honors
contact a member of the HPOC Committee



**creativity dedication
determination perseverance
excellence**