

STARK STATE COLLEGE HONORS PROGRAM PRESENTS



Stark State
COLLEGE

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 Avacado 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 Barbari
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

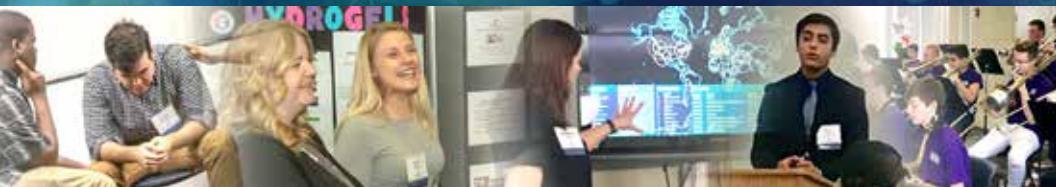
Catherine Rock, PhD

Amy Jo Sanders, PhD

Andrew Stephan, Dean



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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



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