



18TH ANNUAL

Research in the Rotunda

Showcasing the Work of
UW Undergraduates



CAPITOL ROTUNDA MADISON, WI MARCH 9, 2022

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Showcasing the Work of UW Undergraduates

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18TH ANNUAL

RESEARCH IN THE ROTUNDA

March 9, 2022

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SCHEDULE INFORMATION

9:30-10:30am – Set Up Posters

Breakfast snacks available for student presenters and faculty advisers

10:30am-2:30pm – Posters Display, Capitol Rotunda

12pm – Remarks, Capitol Rotunda

Speaker: Tommy Thompson, President, University of Wisconsin System

12:15pm – Lunch Served for Registrants Only, North Hearing Room

2:30-3:30pm – Dismantle Posters

FROM THE PRESIDENT



Dear Education Partner,

Welcome to the UW System's 18th annual *Research in the Rotunda: Showcasing the Work of UW Undergraduates*. We are proud to be back in the capitol this year to highlight the research achievements of our undergraduate students for the general public and state government officials.

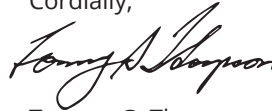
The research projects on display embody the personal and intellectual growth experienced by the students who created them. They are a tangible representation of the UW System's ongoing commitment to build the talent pipeline and to expand knowledge and ideas that are instrumental to the state's success.

Through partnering with our accomplished faculty, each student has a rewarding opportunity to enhance their project management, teamwork, and critical problem-solving skills. Students investigated real-life issues affecting local, state, national, and international citizens and communities. Engaging in undergraduate research is a proven practice that leads to student success, not only in school, but also in future careers. The students' research also has the potential to inform public policy and decisions made by the private sector to help resolve the complex challenges our local, state, and global communities face.

We extend our appreciation to those who made this annual event possible, and we offer a special thanks to Wisconsin's elected representatives and state government officials for their participation and support. We also offer congratulations to the families, community supporters, and UW faculty advisers and staff who were significantly involved.

Most importantly, we congratulate the talented students whose work represents the significant and valuable role undergraduate research plays throughout the UW System and beyond. Their efforts to extend knowledge beyond the boundaries of campus and to stimulate society through their research exemplify the Wisconsin Idea and make us all very proud of them, our university system, and our state.

Cordially,

A handwritten signature in black ink, appearing to read "Tommy G. Thompson". The signature is fluid and cursive, with a large initial "T" and "G".

Tommy G. Thompson
President

BOARD OF REGENTS

Regent Robert Atwell
Regent Scott Beightol
Regent Amy Blumenfeld Bogost
Regent Héctor Colón
Regent Michael M. Grebe
Regent Mike Jones
Regent Tracey L. Klein
Regent Edmund Manydeeds III, *President*
Regent John W. Miller
Regent Rodney Pasch
Regent Andrew S. Petersen
Regent Cris Peterson
Regent Ashok Rai
Regent Corey Saffold
Regent Brianna Tucker
Regent Jill Underly
Regent Karen Walsh, *Vice President*
Regent Kyle M. Weatherly

CHANCELLORS

Chancellor James Schmidt
University of Wisconsin–Eau Claire

Chancellor Michael Alexander
University of Wisconsin–Green Bay

Chancellor Joe Gow
University of Wisconsin–La Crosse

Chancellor Rebecca Blank
University of Wisconsin–Madison

Chancellor Mark Mone
University of Wisconsin–Milwaukee

Chancellor Andrew J. Leavitt
University of Wisconsin–Oshkosh

Chancellor Deborah Ford
University of Wisconsin–Parkside

Chancellor Dennis J. Shields
University of Wisconsin–Platteville

Chancellor Maria Gallo
University of Wisconsin–River Falls

Chancellor Thomas Gibson
University of Wisconsin–Stevens Point

Chancellor Katherine P. Frank
University of Wisconsin–Stout

Chancellor Renée Wachter
University of Wisconsin–Superior

Chancellor Jim Henderson (interim)
University of Wisconsin–Whitewater

FACULTY ADVISERS

Student research cannot occur without the dedication and personal commitment of faculty advisers. We wish to acknowledge the following faculty members for their work to make undergraduate research collaboration possible on every UW System campus.

Faculty Adviser	Campus	Poster	Legislative District Senate/Assembly
James Brian Mahoney	UW-Eau Claire	1	10 91
Sarah Vitale	UW-Eau Claire	1	31 91
Brad Carter	UW-Eau Claire	2	31 91
Elisabeth Harrahy	UW-Whitewater	3	13 38
Joseph Sanford	UW-Platteville	4	27 80
Michael Holly	UW-Green Bay	5, 6	30 88
Kristopher Wright	UW-Platteville	7	17 49
Becky Doyle-Morin	UW-Platteville	7	17 51
Tisha King-Heiden	UW-La Crosse	8	32 95
James Boulter	UW-Eau Claire	9	31 91
Crispin Pierce	UW-Eau Claire	9	31 91
Jidong Zhang	UW-Eau Claire	10	23 91
Lesley Mayne	UW-Eau Claire	11	23 67
Anjela Wong	UW-Eau Claire	11	31 91
Michael Walsh	UW-Eau Claire	12	23 91
Lorraine Smith	UW-Eau Claire	13	23 67
Sudeep Bhattacharyay	UW-Eau Claire	14	31 91
Wufeng Tian	UW-Eau Claire – Barron County	15	25 75
Kiel Nikolakakis	UW-Green Bay	16	30 88
Karen Stahlheber	UW-Green Bay	16	30 88
Tsz Lun (Alan) Chu	UW-Green Bay	17	30 88
Sawa Senzaki	UW-Green Bay	18	30 88
Allen Huffcutt	UW-Green Bay	19	2 4
Jagadeep Thota	UW-Green Bay	20	30 90
Debra Pearson	UW-Green Bay	21	1 1
Georgette Heyrman	UW-Green Bay	21	2 4
Paul Mueller	UW-Green Bay	21	30 90
Rebecca Ablor	UW-Green Bay, Manitowoc Campus	22	9 25
Richard Hein	UW-Green Bay, Manitowoc Campus	22	9 25
Heather Walder	UW-La Crosse	23	32 95
Michael Hoffman	UW-La Crosse	24	32 94
Xinhui Li	UW-La Crosse	25	32 94
Carol Miller	UW-La Crosse	26	32 95
Anton Sanderfoot	UW-La Crosse	27	32 95
Whitney George	UW-La Crosse	28	32 95
Megan Zuelsdorff	UW-Madison	29	26 77

Faculty Adviser	Campus	Poster	Legislative District Senate/Assembly	
Matthew Turner	UW-Madison	30	26	77
Robert Roth	UW-Madison	31	26	77
Catherine Woodward	UW-Madison	32	26	77
Silvia Cavagnero	UW-Madison	33	26	77
Marie-Louise Mares	UW-Madison	34	26	77
Pradeep Rohatgi	UW-Milwaukee	35	8	23
Filipe Alberto	UW-Milwaukee	36	7	19
Christine Larson	UW-Milwaukee	37	9	27
Trudy Watt	UW-Milwaukee	38	3	9
Elizabeth Liedhegner	UW-Milwaukee	39	5	14
Bhagwant Singh Sindhu	UW-Milwaukee	39	7	19
Nathaniel Stern	UW-Milwaukee	40	7	19
Christopher Hays	UW-Milwaukee at Washington County	41	20	58
Gregg Jamison	UW-Milwaukee at Waukesha	41	27	80
Marianne Johnson	UW Oshkosh	43	18	54
John Chan	UW Oshkosh	44	18	54
Lauren Waters	UW Oshkosh	45	18	54
Ryan Allred	UW Oshkosh	46	18	54
S. Evan Kreider	UW Oshkosh, Fox Cities Campus	47	19	57
Mai See Thao	UW Oshkosh	48	18	54
David Higgs	UW-Parkside	49	22	64
Lori Allen	UW-Parkside	50	22	64
John Skalbeck	UW-Parkside	51	21	61
Bom Soo Kim	UW-Parkside	52	21	61
Meredith McGinley	UW-Parkside	53	22	64
Gregory C. Mayer	UW-Parkside	54	22	64
Harold Evensen	UW-Platteville	55	27	80
Gretchen Bohnhoff	UW-Platteville	56	17	49
Jorge Camacho	UW-Platteville	57	17	49
Edoardo Rubino	UW-Platteville	57	17	49
Evan Larson	UW-Platteville	58	17	49
Jodi Prosis	UW-Platteville	59	17	49
Ian MacKenzie	UW-Platteville	60	17	49
Zhifang (Faye) Peng	UW-Platteville Richland	61	17	50
Yunshan Lian	UW-Platteville	61	26	78
James Cortright	UW-River Falls	62	10	30
Surujhdeo Seunarine	UW-River Falls	63	10	30
Rebecca Haley	UW-River Falls	64	10	30
Yoana Newman	UW-River Falls	65	10	30
Courtney Wells	UW-River Falls	66	10	30
Saemyi Park	UW-Stevens Point	67	24	71
Nikolaus Butz	UW-Stevens Point	68	24	71
Lindsay Dresang	UW-Stevens Point	69	24	71
Tiffany Akins	UW-Stevens Point	70	24	71
Bryant Scharenbroch	UW-Stevens Point	71	1	1

Faculty Adviser	Campus	Poster	Legislative District Senate/Assembly
Shannon Riha	UW-Stevens Point	71	24 70
Brian Barringer	UW-Stevens Point	71	24 71
Ann Impullitti	UW-Stevens Point	71	24 71
Paul McGinley	UW-Stevens Point	72	24 71
Amy Nitka	UW-Stevens Point	72	24 71
Tina Lee	UW-Stout	73, 75	10 29
Zach Raff	UW-Stout	74, 75	23 67
Thomas Pearson	UW-Stout	76	10 29
Monika Herrman	UW-Stout	77	10 29
Eleni Pinnow	UW-Superior	78	25 73
Khalil (Haji) Dokhanchi	UW-Superior	79	25 73
Lorena Rios Mendoza	UW-Superior	80	25 73
Hannah Ramage	UW-Superior	81	25 73
Shanna Nifoussi	UW-Superior	82	25 73
Kristopher McConnell	UW-Superior	83	25 73
Stephen Levas	UW-Whitewater	84	28 83
Krista McQueeney	UW-Whitewater	85	26 76
Luke J. Mortensen	UW-Whitewater	86	15 43
Rex Hanger	UW-Whitewater	87	15 43
Barbara Rybski Beaver	UW-Whitewater	88	15 43
Kristen Curran	UW-Whitewater	89	11 33

STUDENT PRESENTERS BY CAMPUS

Poster Number and Poster Title


Student Name, Hometown

WATER RESEARCH FELLOWS

- 1 An Evaluation of Phosphorus Loading Through Lacustrine Groundwater Discharge in Lake Altoona, Eau Claire County, WI**
Maddie Palubicki, UW-Eau Claire, Eleva, WI
Co-authors: Jacob Huffaker, UW-Eau Claire; Bryanna Rayhorn, UW-Eau Claire
- 2 Creating and Characterizing a Zebrafish Knockout Line for Studying Methylmercury Metabolism** 
Ashley Lutzke, UW-Eau Claire, Valders, WI
- 3 Effects of a Mixture of Two Neonicotinoid Insecticides on Reproduction of *Ceriodaphnia dubia* Water Fleas and Growth of *Gammarus pseudolimnaeus* Amphipods**
Faune Fisher, UW-Whitewater, Cambria, WI
Co-authors: Austin Draper, Anya Jeninga, Jacob Lacki
- 4 Evaluation of Filter Media for Phosphorus Removal Systems** 
Zachary Flitsch, UW-Platteville, Milwaukee, WI
Olivia Kozlowska, UW-Platteville, Chicago, IL
Co-author: Tresa Jo Koopmeiners
- 5 Evaluation of Filter Media for Phosphorus Removal in Agricultural Runoff Treatment Systems**
Emma Loucks, UW-Green Bay, Wausau, WI
Co-author: Richard Perschon
- 6 Leachability and Plant-Availability of Phosphorus Sorbed to Agricultural Runoff Filter Media**
Richard Perschon, UW-Green Bay, Delafield, WI
Co-author: Emma Loucks
- 7 Mussel Populations and Habitat Suitability in Southwest Wisconsin** 
Morgan Bradford, UW-Platteville, Kasson, MN
Jagger Mess, UW-Platteville, Hazel Green, WI
Jeremy Kohler, UW-Platteville, West Bend, WI
Brooke Stover, UW-Platteville, Genoa, IL
Travis Tucsek, UW-Platteville, Woodstock, IL
- 8 Secret Life of Fish: Bee-Harming Pesticide Makes Fish Larvae Susceptible to Predators**
Sara Duffy, UW-La Crosse, Appleton, WI
Co-author: Shayla Victoria

Poster Number and Poster Title
Student Name, Hometown

UW-EAU CLAIRE

9 COVID-19 Prevention Through Wastewater Screening and Ventilation Testing 

Logan Anderson, Eleva, WI

Alex Barker, Eau Claire, WI

Breanna Wiese, Wisconsin Dells, WI

Danielle Zahn, Seymour, WI


Co-authors: Jordan Corrigan, Emily Fountas, Laura Horstman, Annika Yoney

10 Cybersecurity: Its Impact on Public Companies 

Sara Hansen, Mondovi, WI

11 Examining Speech Assessment Tools for Bilingual Latinx Students

Sarah Wilke, Waukesha, WI

12 Improving Kidney Disease Diagnosis Using Novel Infrared Light-Based Imaging 


Zach Caterer, Eleva, WI

Co-authors: Katie Feuker, Mikayla Hady, Blake Mathisen

13 It's a WRAP: Environmental Influences That Impact Adolescents' Access to Commercial Tobacco Products 

Grace Neugebauer, Eau Claire, WI

Nicole Wolfe, Onalaska, WI

14 Probing the Chemistry of COVID-19 Severity Using High-Performance Computing 

Carl Fossum, Eau Claire, WI

Macey Smith, Marshfield, WI

UW-Eau Claire – Barron County

15 Hiring Challenges and Workforce Analysis of Local Business at Barron County, WI

Geboli Long, Rice Lake, WI

Zhongzheng Zhou, Rice Lake, WI

Co-author: Shi Qiao

UW-GREEN BAY

16 Comparison of Soil Microbial Community Impacts on Plant Growth in Wisconsin and Michigan Agricultural Soils

Isaiah O'Day, Green Bay, WI

Co-author: Abby Mader

17 Effects of Gratitude and Self-Compassion on White and Non-White Athletes' Psychosocial Outcomes

Betty Rose-Ackley, Sheboygan, WI

Poster Number and Poster Title

Student Name, Hometown

18 A Social Gambling Task and Its Relation to Physiological Responses in Children and Adults

Carter Crowley, Fond du Lac, WI

Taylor Kegen, Eau Claire, WI

19 Implications of Race and Age on Behavior Description Interviews

Kelsi Engelhardt, Sheboygan, WI

Elena Hurley, Cedarburg, WI

Farhiya Muhidin, Milwaukee, WI

Harrison Thiry, Kiel, WI

Kyle VandeVenter, Menasha, WI

20 Numerical Investigation of Gyroid Composite for Shock Mitigation

Jordan Cioni, Green Bay, WI

21 Ovarian Cancer Cell Line-Specific Responses to Dietary Molecules Vitamin D and Omega-3 Fatty Acids

Kylie Gierach, Sheboygan, WI

Katharina Keller, Forest Junction, WI

Co-authors: Brooke Breitrack, Rebecca Radtke

UW-Green Bay, Manitowoc Campus

22 Assessment of Phosphorus Impairment of Lake Michigan Tributaries in Manitowoc County, WI

Sarah Burmesch, UW-Green Bay, Sheboygan Campus, Belgium, WI

Alexandra Davis, UW-Green Bay, Green Bay, WI

Cameron Mueller, UW-Green Bay, Manitowoc Campus, Manitowoc, WI

Tanner Nate, UW-Green Bay, Manitowoc, WI

UW-LA CROSSE

23 Collaborative Archaeological Analysis of Early 20th Century Tourism in Red Cliff, Wisconsin

Lauren Brewer, Manitowoc, WI

24 Determination of HPIV3 M Protein Regions Involved in Assembly and Release of Virus Particles

Halle Pavelski, Stevens Point, WI

Co-author: Dom Smith

25 Development of Yeast-coated Beads for the Inactivation of Tulane Virus, a Human Norovirus Surrogate, in Water

Hunter Charles, Spring Valley, WI

26 How Political Efficacy Impacts Support for Redistributive Policies

Kassidy Leannais, La Crosse, WI

Poster Number and Poster Title

Student Name, Hometown

27 The Effects of Nitrate Exposure on *Chlamydomonas reinhardtii*

Annie Panico, La Crosse, WI

28 Thickening the Figure-Eight Knot

Mason Faldet, Waupaca, WI


UW-MADISON

29 Acute and Chronic Stress, Stress Biomarkers, and Brain Health in a Diverse Population of Older Adults

Julianne Logan, Madison, WI

30 Exploring the Political Ecology of a Proposed CAFO Within the Driftless

Jessica Bedtka, Eastman, WI

31 Mapping Presidential Elections: An Empirical Analysis of Effective Design Techniques 

Lily Houtman, Green Bay, WI

32 The Effects of Fishing on Herbivory Around Patch Reefs in a Belizean Marine Reserve

Luis Manuel Abreu-Socorro, Madison, WI

33 The Hsp70 Chaperone: A Molecular Helper That Supports Protein Folding and Life on Earth

Jasmine Machhi, Mequon, WI

Co-author: Miranda Mecha

34 Understanding the Incel Community as Antifandom; Comprehending Virtual Hate Groups

Kellen Sharp, Milwaukee, WI

Co-author: Matthew Meier

UW-MILWAUKEE

35 Analysis of the Friction and Wear Behavior of Graphene-Reinforced Aluminum Metal Matrix Composites using Machine Learning Models

Tien Wong, Milwaukee, WI

Co-author: Syam Hasan

36 Giant KelpR: A Webapp for Exploratory Analysis of *Macrocystis pyrifera* Change in Southern-Central California

Nathaniel Tennies, Jefferson, WI

37 Links Between Exposure to Racial Discrimination, Sleep Disturbances and PTSD Among Black American Adults

Tristan Jarvey, Milwaukee, WI

Poster Number and Poster Title

Student Name, Hometown

38 Movement Towards Compassion in Architecture

Isabella Cosentino, Menomonee Falls, WI

Jessie Van Dyck, Milwaukee, WI

*Co-authors: Maysam Abdeljaber, Patrick Finucane, Steven Rasmussen,
Luis Ylizaliturri-Fernandez*

39 The Effect of Mindfulness Practice on Salivary Cortisol Levels in a Patient Population Undergoing Rotator Cuff Repair

Sanya Kathuria, Milwaukee, WI

40 Working on the World After Us

Meghan Berger, Milwaukee, WI

Mary Widener, Shorewood, WI

UW-Milwaukee at Waukesha

41 An Archaeological Survey at the UWM-Waukesha Field Station

David Shaw, East Troy, WI

UW OSHKOSH

43 Impact of Voter ID Laws on Turnout

Joey Reddin, Brookfield, WI

44 Ligand Gated Ion Channels as Drug Targets to Kill Blood-Dwelling Parasitic Flatworms

Hailey Johnson, Appleton, WI

Mia VanHooreweghe, Appleton, WI

Co-authors: Isaac Kamara, Kirandeep Kaur, Alexis Soukavath

45 Manganese Homeostasis in Bacteria: Interaction of the Small Protein MntS and the Manganese Exporter MntP in *E. coli*

Mackenzie Seymour, Loves Park, IL

Co-author: Zachary Wright

46 Masking Student/Teacher Interactions: Inspecting the Connection Between Masks and Nonverbal Immediacy in the Classroom

Ashley Plageman, Pardeeville, WI

Co-author: Natalie Reinholtz

47 On the Context and Implications of Mike Winkelmann

Nick Morrissey, Neenah, WI

48 The Hmong Story Retold as American History

Amy Xiong, Appleton, WI

Emily Xiong, Omro, WI

Liseng Xiong, Appleton, WI

Co-author: Nou Xiong

Poster Number and Poster Title

Student Name, Hometown

UW-PARKSIDE

49 Characterization of the TLN1 Mutant With a High Tolerance to Low Nitrogen in the Alga *Chlamydomonas reinhardtii*

Charlotte Aguirre, Kenosha, WI

Co-author: Jared L. Mayrand

50 Determination of Chromium in Beverages by IC ICP-MS

Christopher LeValley, Kenosha, WI

Co-author: Hannah Tangen

51 Eutrophic Evaluation of an Artificial Lake: Lake Russo, Pleasant Prairie, WI

Alyssa McBain, Kenosha, WI

52 Semiclassical Approach of Hall Viscosity in Quantum Hall Systems

Peter Kveton, Racine, WI

53 The Influence of Adverse Childhood Experiences on Attachment, Emotion Dysregulation, and Dissociative Tendencies

Jenna Eschner, Milwaukee, WI

54 The Relationship of Migratory Status and Latitude in East Asian Bird Faunas

Madelynn Sinclair, Kenosha, WI

UW-PLATTEVILLE

55 Carbon Nanotube Electronics

Eliot Driessen, Kimberly, WI

Devon Lee, Madison, WI

56 Characteristics of Bentonite Barriers Under Varying Temperatures and Chemical Conditions

Tara Abramson, Franksville, WI

Victoria Chanez, Oshkosh, WI

Jenna Springer, Florence, WI

Benjamin Wacker, Waukesha, WI

57 Energy Harvesting With Advanced Materials

Dane Adams, Baldwin, WI

Nikhil Agarwal, Sun Prairie, WI

Evelyn Barta, New Berlin, WI

Conrad Domine, Fountain City, WI

Jordan Meciej, Grayslake, IL

Josie Schoeller, Woodville, WI

Co-author: Ben Claas

Poster Number and Poster Title

Student Name, Hometown

58 Groundwater Access Impacts Tree Productivity in the Central Sands of Wisconsin ▶

Sheri Ramos, McHenry, IL

John Rodwell, Cottage Grove, WI

Grace Trenkamp, Platteville, WI

Lucas Turpin, Madison, WI

59 Plastic Management and a New Life ▶

Mackenzie Darkow, Hartland, WI

Paul Jacobson, Mazomanie, WI

Daniel Myers, Platteville, WI

Johanna Peplinski, Amherst, WI

Dustin Pick, Campbellsport, WI

Olivia Schweiger, Beaver Dam, WI

Sydney Singer, Roscoe, IL

60 Turning on the Light: Developing Next Generation Agrochemicals via Organic Photochemistry

Natalie Hayes, Hudson, WI

Brooke Steeno, Pulaski, WI

UW-Platteville Baraboo Sauk County

61 How Will Small Hometown Businesses Survive the Age of Technology? ▶

Katelyn Zajicek, Portage, WI

UW-RIVER FALLS

62 A Friend in Need, Investigating Empathy and Prosocial Behavior Utilizing Rat Models

Sidney Peck, New Richmond, WI

Daniel Roeber, River Falls, WI

63 Geomagnetic Effects on Particle Propagation at the South Pole

James Bowers, River Falls, WI

G. Hibbert, Green Bay, WI

64 Investigating Mechanochemical Means to Greener Transfer Hydrogenations

Maxwell Lewis, Stoughton, WI

65 Summer Annual Options for Wisconsin

Jack Morrison, River Falls, WI

Co-author: Carl Snyder

66 The Impact of Gender Inclusivity on the Education of Students in College and Universities

Aspen Larsen, River Falls, WI

Poster Number and Poster Title

Student Name, Hometown

UW-STEVENS POINT

67 A Jump or a Hurdle: The 'Push' Factors for Latin American Immigrants

Kyle Beyersdorf, Appleton, WI

68 Avoiding Sour Grapes and Bitter Hops: How Wisconsin Laws Can Nurture the Local Wineries and Breweries That Drive Regional Economies

Callie Wulk, Wausau, WI

69 Comparing Transcriptomic Profiles From Seven Cell Lines to Elucidate Liver Metastatic Potential 

Kirby Kuehn, Rhineland, WI

70 Mask Adherence Surveillance of University and Broader Community Settings

Catie Gage, Janesville, WI

Sophia Reddan, Madison, WI

71 Phytoremediation in Hemp (*Cannabis sativa*) – Using an Alternative Crop to Diversify Wisconsin Agriculture and Clean Up the Environment

Mike Ayensu-Mensah, Greenville, WI

Madison Haumschild, Wautoma, WI

Christian Howerton, Hobart, IL

Adam Laehn, Merrill, WI

Lauren Meunier, Waukesha, WI

Barbara Miller, Granton, WI

Sydney Polich, Antioch, IL

Sophia Risch, Kimberly, WI

Mackenzie Wisdom, Woodridge, IL

Co-author: Meghan Schimka

72 Using Acesulfame to Determine Septic System Impact to Wisconsin Lakes

Hannah Lukasik, Oak Creek, WI

UW-STOUT

73 Coping with COVID: A Phenomenological Study of Students with Mental Health Issues Across a Pandemic

Dylan Neilson, Appleton, WI

74 Highways: Lifelines of the Economy

Ronald Barutha, Hales Corners, WI

75 The Effects of Title 3 Funding on Senior Students' College Attainment 

Logan Willits, Genoa City, WI

Poster Number and Poster Title

Student Name, Hometown

76 To Have or Have Not: Local Residents' Response to the Covid-19 Vaccine

Daniel Walker, Menomonie, WI

77 Updating Residential Building Codes to Allow for a Carbon Free Future

Laney Kaneski, Menomonie, WI


Grayson LaCombe, Minneapolis, MN

Co-authors: Daniel Horist, Sawyer Tealey

UW-SUPERIOR

78 Barriers to Wellness in a Population of Deaf Individuals


Jacqueline Fontaine, Superior, WI

79 Does Political Mobilization Result in More Voting Participation From Native Americans 


Gavin Sordelet, Cloquet, MN

80 Face Masks: Breathing Microplastic Fibers 

Austin Dehn, Superior, WI

81 Investigation of the Influence of Biofouling on in situ Chlorophyll-a Sensors in the St. Louis River 

Staci Reynolds, Hazel Green, WI

82 Stress and Eating Habits 

Alissa Notenber, Superior, WI

83 The Transcription Factor GAL4 Disrupts Egg Production in the Fruit Fly *Drosophila melanogaster* 

Tiansheng Zhang, Superior, WI

UW-WHITEWATER

84 Effect of Ocean Acidification on Soft Coral Physiology

Kirsten Schwenk, Wauwatosa, WI

85 Police Shootings Involving African Americans 

Shalea Carter, Milwaukee, WI

86 Single Cell IDO Expression to Study Mesenchymal Stromal Cells (MSCs) Potency Levels

Angelique Compton, Milwaukee, WI

87 Taphonomy of the Echinoids of the Cretaceous Walnut Formation, Central Texas

Abbie Bruederle, Cedarburg, WI

Poster Number and Poster Title

Student Name, Hometown

88 The Acceptability of Mindfulness-Based Approaches Among African-American Young Adults

Chyna Hill-Scanlan, Milwaukee, WI

89 *Xenopus laevis* to Determine Whether xBmal1 and xNocturnin Are Involved in Heart Development

Destiny Scott-Dyson, Milwaukee, WI

STUDENT PRESENTERS BY WISCONSIN LEGISLATIVE DISTRICT

Legislative District

Senate/Assembly	Student Presenter	Campus	Poster
1 3	Katharina Keller	UW-Green Bay	21
1 3	Mia VanHooreweghe	UW Oshkosh	44
1 3	Eliot Driessen	UW-Platteville	55
2 5	Danielle Zahn	UW-Eau Claire	9
3 9	Destiny Scott-Dyson	UW-Whitewater	89
4 10	Mary Widener	UW-Milwaukee	40
4 10	Chyna Hill-Scanlan	UW-Whitewater	88
5 13	Kirsten Schwenk	UW-Whitewater	84
5 14	Joey Reddin	UW Oshkosh	43
6 16	Angelique Compton	UW-Whitewater	86
6 17	Shalea Carter	UW-Whitewater	85
6 18	Farhiya Muhidin	UW-Green Bay	19
7 19	Tien Wong	UW-Milwaukee	35
7 19	Tristan Jarvey	UW-Milwaukee	37
7 19	Jessie Van Dyck	UW-Milwaukee	38
7 19	Sanya Kathuria	UW-Milwaukee	39
7 19	Meghan Berger	UW-Milwaukee	40
7 19	Jenna Eschner	UW-Parkside	53
7 21	Hannah Lukasik	UW-Stevens Point	72
8 22	Isabella Cosentino	UW-Milwaukee	38
8 24	Jasmine Machhi	UW-Madison	33
9 25	Ashley Lutzke	UW-Eau Claire	2
9 25	Cameron Mueller	UW-Green Bay, Manitowoc Campus	22
9 25	Tanner Nate	UW-Green Bay	22
9 25	Lauren Brewer	UW-La Crosse	23
9 26	Kelsi Engelhardt	UW-Green Bay	19
9 27	Betty Rose-Ackley	UW-Green Bay	17
9 27	Harrison Thiry	UW-Green Bay	19
9 27	Kylie Gierach	UW-Green Bay	21
10 29	Dane Adams	UW-Platteville	57
10 29	Josie Schoeller	UW-Platteville	57
10 29	Sidney Peck	UW-River Falls	62
10 29	Daniel Walker	UW-Stout	76
10 29	Laney Kaneski	UW-Stout	77
10 29	Grayson LaCombe	UW-Stout	77
10 30	Natalie Hayes	UW-Platteville	60

Legislative**District**

Senate/Assembly		Student Presenter	Campus	Poster
10	30	James Bowers	UW-River Falls	63
10	30	Jack Morrison	UW-River Falls	65
10	30	Aspen Larsen	UW-River Falls	66
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11	32	Logan Willits	UW-Stout	75
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12	35	Kirby Kuehn	UW-Stevens Point	69
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13	37	Nikhil Agarwal	UW-Platteville	57
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13	39	Olivia Schweiger	UW-Platteville	59
14	40	Mason Faldet	UW-La Crosse	28
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17	49	Morgan Bradford	UW-Platteville	7
17	49	Jagger Mess	UW-Platteville	7
17	49	Brooke Stover	UW-Platteville	7
17	49	Travis Tucsek	UW-Platteville	7
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17	49	Daniel Myers	UW-Platteville	59
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19 56	Kyle Beyersdorf	UW-Stevens Point	67
19 56	Mike Ayensu-Mensah	UW-Stevens Point	71
19 57	Kyle VandeVenter	UW-Green Bay	19
19 57	Hailey Johnson	UW Oshkosh	44
19 57	Dylan Neilson	UW-Stout	73
20 59	Dustin Pick	UW-Platteville	59
20 60	Jeremy Kohler	UW-Platteville	7
20 60	Elena Hurley	UW-Green Bay	19
20 60	Sarah Burmesch	UW-Green Bay, Sheboygan Campus	22
20 60	Abbie Bruederle	UW-Whitewater	87
21 62	Peter Kveton	UW-Parkside	52
21 63	Tara Abramson	UW-Platteville	56
22 64	Charlotte Aguirre	UW-Parkside	49
22 64	Madelynn Sinclair	UW-Parkside	54
22 65	Christopher LeValley	UW-Parkside	50
22 65	Alyssa McBain	UW-Parkside	51
23 69	Macey Smith	UW-Eau Claire	14
23 69	Barbara Miller	UW-Stevens Point	71
24 71	Halle Pavelski	UW-La Crosse	24
24 71	Johanna Peplinski	UW-Platteville	59
24 71	Christian Howerton	UW-Stevens Point	71
24 71	Sydney Polich	UW-Stevens Point	71
24 71	Sophia Risch	UW-Stevens Point	71
24 71	Mackenzie Wisdom	UW-Stevens Point	71
24 72	Madison Haumschild	UW-Stevens Point	71
25 73	Jacqueline Fontaine	UW-Superior	78
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25 73	Alissa Notenber	UW-Superior	82
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26	78	Lucas Turpin	UW-Platteville	58
27	81	Paul Jacobson	UW-Platteville	59
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28	83	Ronald Barutha	UW-Stout	74
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30	88	Alexandra Davis	UW-Green Bay	22
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30	89	Lily Houtman	UW-Madison	31
30	90	G. Hibbert	UW-River Falls	63
31	91	Alex Barker	UW-Eau Claire	9
31	91	Grace Neugebauer	UW-Eau Claire	13
31	91	Carl Fossum	UW-Eau Claire	14
31	91	Taylor Kegen	UW-Green Bay	18
31	92	Logan Anderson	UW-Eau Claire	9
31	92	Conrad Domine	UW-Platteville	57
31	93	Maddie Palubicki	UW-Eau Claire	1
31	93	Sara Hansen	UW-Eau Claire	10
31	93	Zach Caterer	UW-Eau Claire	12
31	93	Hunter Charles	UW-La Crosse	25
31	93	Daniel Roever	UW-River Falls	62
32	94	Nicole Wolfe	UW-Eau Claire	13
32	95	Kassidy Leannais	UW-La Crosse	26
32	95	Annie Panico	UW-La Crosse	27
32	96	Jessica Bedtka	UW-Madison	30
33	97	Sarah Wilke	UW-Eau Claire	11
33	97	Benjamin Wacker	UW-Platteville	56
33	97	Lauren Meunier	UW-Stevens Point	71
33	99	Richard Perschon	UW-Green Bay	6, 5
33	99	Mackenzie Darkow	UW-Platteville	59

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