



14TH ANNUAL

Research in the Rotunda

*Showcasing the Work of
UW Undergraduates*



CAPITOL ROTUNDA MADISON, WI APRIL 12, 2017

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Showcasing the Work of UW Undergraduates

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14TH ANNUAL

RESEARCH IN THE ROTUNDA

April 12, 2017

CONTENTS

From the President	1
Board of Regents	3
Chancellors	4
UW Colleges Regional Deans	5
Faculty Advisers	6
Student Presenters	
Alphabetical by UW Institution	9
By Legislative District	18

SCHEDULE INFORMATION

10AM-3PM – POSTERS DISPLAY, CAPITOL ROTUNDA

12PM – REMARKS, CAPITOL ROTUNDA

Speaker: Ray Cross, President, University of Wisconsin System

FROM THE PRESIDENT



Dear Education Partner,

Welcome to the UW System's 14th annual *Research in the Rotunda: Showcasing the Work of UW Undergraduates*. We are proud to sponsor this opportunity for students and faculty to present their research achievements to the general public and the state legislature.

The research projects on display embody the personal and intellectual growth of the students who created them. They are a tangible representation of our ongoing commitment to expanding knowledge and the kind of ideas critical to the future of our economy.

Working with our talented faculty, each student has a unique opportunity to challenge themselves and develop critical problem-solving skills that will serve them throughout their careers. Students involved in these endeavors also develop their ability to manage a project, work with a team, and communicate their ideas clearly. The benefits go far beyond the classroom and the research poster on display.

The impact of these projects extends beyond the campuses as well. Students investigated real-life issues affecting Wisconsin citizens and communities. Their research has the potential to inform public policy and decisions made by the private sector.

Finally, this research is a reminder that the UW System, our students, our institutions, and our faculty and staff are the engines that drive the Wisconsin economy. The UW System has a \$15+-billion impact on Wisconsin's economy every year. That impact is delivered through the workers, entrepreneurs, and leaders we help develop, and the talent and ideas they bring to the state's workforce. Research is a key focus of UW System's 2020FWD strategic framework, which emphasizes the importance of investing resources and promoting a culture that rewards innovation. This event celebrates those achievements and aspirations.

We extend our appreciation to those who have again made this event possible, and offer a special thanks to Wisconsin's elected representatives for their participation and support. We also offer congratulations to the families, community supporters, and UW faculty and staff who played an important role as well.

Most importantly, we congratulate the talented students whose work represents the unique and critical role research plays throughout the UW System. Their effort to extend knowledge beyond the boundaries of the campus and to stimulate society through their research exemplifies the Wisconsin Idea and makes us all very proud of our university system and our state.

Cordially,

A handwritten signature in black ink that reads "Ray Cross". The signature is written in a cursive style with a large, prominent "R" and "C".

Ray Cross
President

BOARD OF REGENTS

Regent John Robert Behling, *Vice President*

Regent Mark J. Bradley

Regent José Delgado

Regent Lisa Erickson

Regent Tony Evers

Regent Margaret Farrow

Regent Michael M. Grebe

Regent Eve Hall

Regent Tim Higgins

Regent Tracey L. Klein

Regent James A. Langnes III

Regent Edmund Manydeeds

Regent Regina M. Millner, *President*

Regent Janice Mueller

Regent Drew Petersen

Regent Bryan G. Steil

Regent S. Mark Tyler

Regent Gerald Whitburn

CHANCELLORS

Chancellor Cathy A. Sandeen
University of Wisconsin Colleges
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University of Wisconsin–Eau Claire

Chancellor Gary L. Miller
University of Wisconsin–Green Bay

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University of Wisconsin–La Crosse

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Chancellor Andrew J. Leavitt
University of Wisconsin–Oshkosh

Chancellor Deborah Ford
University of Wisconsin–Parkside

Chancellor Dennis J. Shields
University of Wisconsin–Platteville

Chancellor Dean Van Galen
University of Wisconsin–River Falls

Chancellor Bernie L. Patterson
University of Wisconsin–Stevens Point

Chancellor Bob Meyer
University of Wisconsin–Stout

Chancellor Renée Wachter
University of Wisconsin–Superior

Chancellor Beverly A. Kopper
University of Wisconsin–Whitewater

UW COLLEGES REGIONAL DEANS

Keith Montgomery, Regional Executive Officer/Dean, North Region

UW-Barron County

UW-Marathon County

UW-Marshfield/Wood County

UW-Marinette

Martin Rudd, Regional Executive Officer/Dean, Northeast Region

UW-Fond du Lac

UW-Fox Valley

UW-Manitowoc

Jackie Joseph-Silverstein, Regional Executive Officer/Dean,
Southeast Region

UW-Sheboygan

UW-Washington County

UW-Waukesha

Charles Clark, Regional Executive Officer/Dean, Southwest Region

UW-Baraboo/Sauk County

UW-Richland

UW-Rock County

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 campus.

Faculty Adviser	Institution	Poster	Legislative District Senate/Assembly	
George Christiansen	UW-Baraboo/Sauk County	1	26	77
Stephen Swallen	UW-Baraboo/Sauk County	2	27	81
Kirthi Premadasa	UW-Baraboo/Sauk County	3	27	81
Musa Ayar	UW-Baraboo/Sauk County	4	27	81
David Olson	UW-Baraboo/Sauk County	5	27	81
Dale Murray	UW-Baraboo/Sauk County	6	26	76
Erin DeMuynck	UW-Fox Valley	7	19	57
John Beaver	UW-Fox Valley	8	19	57
Kaitlyn Mahoney	UW-Marathon County	9	29	85
Nate Maddux	UW-Rock County	10	15	44
William Dirienzo	UW-Sheboygan	11	9	26
Toye Ekunsanmi	UW-Washington County	12	20	58
Mark Hall	UW-Marathon County	13	29	85
Michael Pauers	UW-Waukesha	14	5	15
Gregg Jamison	UW-Waukesha	15	27	80
James Oberly	UW-Eau Claire	16	31	91
Joseph Hupy	UW-Eau Claire	17	31	91
Matthew Jewell	UW-Eau Claire	18	31	91
Stephen Drucker	UW-Eau Claire	19	23	91
Thomas Kemp	UW-Eau Claire	20	31	91
Jerry Hoepner	UW-Eau Claire	21	23	68
Abby Hemmerich	UW-Eau Claire	21	31	93
Robert Howe	UW-Green Bay	22	30	88
Amy Wolf	UW-Green Bay	22, 24	30	88
Ankur Chattopadhyay	UW-Green Bay	23, 26	2	5
Patrick Forsythe	UW-Green Bay	25	30	88
T. Heather Herdman Christine Vandenhouten	UW-Green Bay	27	30	88
Nathan Warnberg	UW-La Crosse	27	2	5
Margaret Maher	UW-La Crosse	28	32	94
		29	32	94

Faculty Adviser	Institution	Poster	Legislative District Senate/Assembly	
Amy Nicodemus	UW-La Crosse	30	32	95
Kristofer Rolfhus	UW-La Crosse	31	32	95
Karen Skemp	UW-La Crosse	32	32	94
Todd Osmundson	UW-La Crosse	33	32	95
Ruth Litovsky	UW-Madison	34	14	42
Sara Misurelli	UW-Madison	34	26	77
Ozioma Okonkwo	UW-Madison	35	26	78
Judith Harackiewicz	UW-Madison	36	26	77
Pamela Herd	UW-Madison	37	26	47
Lauren Papp	UW-Madison	38	27	79
Lisa Gralnick	UW-Madison	39	26	76
Ira Driscoll	UW-Milwaukee	40	6	16
Gerlinde Höbel	UW-Milwaukee	41	7	19
Mohammad Rahman	UW-Milwaukee	42	4	10
Brooke Slavens	UW-Milwaukee	43	5	15
Dyanna Czeck	UW-Milwaukee	44	8	23
David Garman	UW-Milwaukee	45	3	8
Marcia Silva	UW-Milwaukee	45	7	19
Marianne Johnson	UW-Oshkosh	46	18	54
Christopher Bianchetti	UW-Oshkosh	48	18	54
Michael Godfrey	UW-Oshkosh	49	18	53
Eric Hiatt	UW-Oshkosh	50	18	54
Ashley Thompson	UW-Oshkosh	51	19	55
William Parker	UW-Parkside	52	22	64
Christopher Hudspeth	UW-Parkside	53	22	66
Abey Kuruvilla	UW-Parkside	54	21	62
Edward Bowden	UW-Parkside	55	22	65
Melissa Gregg	UW-Parkside	56	21	62
Jessica Orlofske	UW-Parkside	57	21	62
Pete Lammers	UW-Platteville	58	17	49
Miranda Bader-Goodman	UW-Platteville	59	17	49
Jorge Camacho	UW-Platteville	59	17	49
Evan Larson	UW-Platteville	60	17	49
Christopher Underwood	UW-Platteville	60	17	49
Raja Annamalai	UW-Platteville	61	17	49
Muthusubramanian Venkateshwaran	UW-Platteville	61	17	49

Faculty Adviser	Institution	Poster	Legislative District Senate/Assembly
Wei Li	UW-Platteville	62	17 49
Soma Chattopadhyay	UW-Platteville	63	17 49
John Wheeler	UW-River Falls	64	10 30
Casie Bass	UW-River Falls	65	31 93
Peter Rayne	UW-River Falls	65	10 30
Kurt Vogel	UW-River Falls	65	10 30
Jill Coleman Wasik	UW-River Falls	66	10 30
Timothy Lyden	UW-River Falls	67	31 93
Lowell McCann	UW-River Falls	68	31 93
Andris Straumanis	UW-River Falls	69	10 30
Beth Kinslow	UW-Stevens Point	70	24 71
Kyle Herrman	UW-Stevens Point	71	24 71
Nikolaus Butz	UW-Stevens Point	72	24 71
Diane Caporale	UW-Stevens Point	73	29 85
Valerie Barske	UW-Stevens Point	74	24 70
Shelli Dubay	UW-Stevens Point	75	24 71
Jason Riddle	UW-Stevens Point	75	24 71
Matthew Broadway	UW-Stevens Point	75	24 71
Innisfree McKinnon	UW-Stout	76	10 29
Tina Lee	UW-Stout	77, 80	10 29
Jeffrey Sweat	UW-Stout	77	10 29
Tiffany Smith	UW-Stout	78	23 67
Crystal Aschenbrener	UW-Stout	79	10 29
Jamil Talukder	UW-Stout	81	3 29
Raychel Haugrud Reiff	UW-Superior	82	25 73
Lynn Goerd	UW-Superior	83	25 73
Patricia Beech	UW-Superior	83	25 73
Jenean O'Brien	UW-Superior	84	25 73
Lorena Rios Mendoza	UW-Superior	85	25 73
Eleni Pinnow	UW-Superior	86	25 73
Maria Stalzer			
Wyant Cuzzo	UW-Superior	87	25 73
Yeongmin Kim	UW-Whitewater	88	15 43
Leda Nath	UW-Whitewater	88	16 47
Laura Porterfield	UW-Whitewater	89	7 19
Carolyn Morgan	UW-Whitewater	90	15 44
Eylem Ersal Kiziler	UW-Whitewater	91	15 43
Christopher Veldkamp	UW-Whitewater	92	33 33
Nick Hwang	UW-Whitewater	93	26 76
George Clokey	UW-Whitewater	93	11 33

STUDENT PRESENTERS BY INSTITUTION

Poster Number and Poster Title

Student Name, Hometown

UW-BARABOO/SAUK COUNTY

- 1 **A+ Artifacts: Bringing Archaeology to 4th Graders**
Madilyn Vetter, Endeavor WI
- 2 **Caffeine Content: Commercial Versus Hand-Roasted Coffees**
Kody Friend, Reedsburg WI
Ryan Ramnarace, Baraboo WI
- 3 **Does GPS Accuracy Vary with Speed and Curvature?**
Alissa Shortreed, Pardeeville WI
Brielle Shortreed, Pardeeville WI
- 4 **Examining the Correlation between Student Achievement and Teacher Salary**
Sam Gasser, Sauk City WI
Andrew Schoepp, Sauk City WI
- 5 **Infiltration and Invasive Species: A Project to Restore the UW-Baraboo Woodlands**
Luke Moat, Baraboo WI
- 6 **Vocation as Object for Aristotle's Theory of Philia**
Kevin Veloso, Baraboo WI

UW-FOX VALLEY

- 7 **Access to Mental Health and Substance Abuse Treatment in NE Wisconsin: Understanding the Distance Barrier**
Lucas Lytie, Hortonville WI
- 8 **Ephemeral Process Photography: Fresh Ideas for Artistic Expression Using Old Techniques**
Hannah Fudge, New London WI

UW-MARATHON COUNTY

- 9 **Data Analysis for the SEAL Project**
Riley Serman, Wausau WI

UW-ROCK COUNTY

- 10 **UW-Rock County Heritage Spanish Project**
Peter Kelly, Beloit WI

UW-SHEBOYGAN

11 Exposing DNA to Cosmic Radiation with RockSat-C

Bob Aloisi, Sheboygan Falls WI

Ryan Kisiolek, Sheboygan WI

UW-WASHINGTON COUNTY

12 A Comparative Account of Mold Contents of Different Parts of Homes in West Bend Using Settle Plate and Machine Sampling Methods

Katelynn Marohl, West Bend WI

Justin Nolan, Germantown WI

UW-WAUKESHA

13 Automation of UW Colleges Early Alerts

Christian Reese, Delafield WI

14 The Effect of Turbulence on the Development of Morphology in the Lake Malaŵi Endemic Cichlid Fishes of the Genus Labeotropheus

Robert Hall, Waukesha WI

Kesha Patel, Waukesha WI

15 Tools that Tell Time: Archaeology and Wisconsin's Past

Jacob Molkentin, Milwaukee WI

Lee Stedman, Milwaukee WI

Jared Stoner, Nashotah WI

UW-EAU CLAIRE

16 "A Church, a Bar, and a Brewery": Prohibition and Ethno-Religious Identities in Berlin, Wisconsin, 1910-1933

Danielle Schroeder, Berlin WI

17 Applying UAS Technology in the Mining Industry to Lower Overhead Costs and Improve upon Accuracy Standards

Scott Nesbit, Fall Creek WI

18 Investigation of Mechanical Properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Superconductor through Scanning Electron Microscopy

Sarah Sortedahl, Spring Valley WI

19 Spectroscopic and Computational Studies of Molecules in Electronic Excited States

Michael McDonnell, Spring Valley WI

20 The Impact of Water Clarity on Home Prices in Northwestern Wisconsin

Irene Ng, Eau Claire WI

21 The Role of Mindsets in an Undergraduate Research Course

Sophie Grelson, Apple Valley MN

Erin Zigler, Melrose WI

Poster Number and Poster Title
Student Name, Hometown

UW-GREEN BAY

- 22 Bat Diversity and Abundance in the Coastal Zone of Lower Green Bay, Lake Michigan
Jeremiah Shrovnal, Green Bay WI
- 23 Designing and Developing a Simple Visual Tool for Privacy Awareness, Basic Information Security Education and K-12 Outreach
David Christian, Green Bay WI
Adam Ulman, Appleton WI
- 24 Restoration of Great Lakes Beach Habitats in the Fox River and Lower Green Bay Area of Concern
Emily Vandersteen, De Pere WI
- 25 The Effect of Native and Invasive Plant Species and Density on Northern Pike Egg Mortality and Hatching Rates
Anne Linkenheld, Belvidere IL
- 26 Towards a Biometric Authentication-based Hybrid Computing Approach for Improving Trust in Online Healthcare Information
Clinton Rettler, Green Bay WI
Michael Schulz, Shawano WI
- 27 Understanding Health Beliefs and Health Practices of Mexican Immigrants and Mexican Americans in Northeastern Wisconsin
Isaias Jauregui, Green Bay WI

UW-LA CROSSE

- 28 Anti-van der Waerden Numbers on Grid Graphs
Hunter Rehm, Dousman WI
- 29 Comparison of Responses to Mental and Physical Stress between Second Generation Hmong Americans and White American Peers
Gaokhia Yang, Holmen WI
- 30 Faunal Remains as an Indicator of Change in Social Stratification at Pecica-Santul Mare
Brett Meyer, Chilton WI
- 31 Methylmercury Contamination in the Lower Food Web of At-Risk Minnesota Rivers
Khadel Akindoloire-King, Eau Claire WI
Marissa Despins, Stoughton WI
- 32 The Effects of a Ketogenic Diet on Body Composition in Resistance Training Females
Marissa Stehly, McFarland WI

33 Who Got There First? Effects of Yeast/Bacterial Colonization Patterns on Biofilm Structure in Kombucha, a Food Product and Potential Model for Studies in Multispecies Biofilm Formation
Benjamin Schilz, South Milwaukee WI

UW-MADISON

34 Assessing Cognitive Load in Individuals with Single-Sided Deafness with a Cochlear Implant
Emily Burg, Mukwonago WI

35 Chronotropic Response and Cognitive Function in a Cohort at Risk for Alzheimer's Disease
Lena Law, Marshfield WI

36 Exploring the Best Way to Communicate Utility Value for First-Generation Students
Cory Washington, Milwaukee WI

37 Harnessing Community Ownership and Engagement to Reduce Local Poverty
Jarjeh Fang, Naperville IL
Swetha Saseedhar, Madison WI

38 Implications of Prescription Drug Misuse During Midlife for Personal and Relationship Health and Well-being
Molly Malone, La Crosse WI
Lane Steinhuis, Portage WI

39 Pattern: Metals, Print, and Power in Art
Steven Kaplan-Pistiner, Random Lake WI

UW-MILWAUKEE

40 Associations between Genetic Risk for Alzheimer's Disease and Hippocampus-dependent Memory and Learning in Healthy, Middle-aged Adults
Marijam Frahmand, Milwaukee WI

41 Correlation of Handedness and Ear Preference in Gray Treefrogs
Juan Orjuela, Milwaukee WI

42 Development of a Portable Robotic Assistive Device for Hand Rehabilitation
Christopher Spiewak, Milwaukee WI

43 Evaluating a New, Multispeed Geared Wheelchair Wheel
Lianna Hawi, Oshkosh WI

44 Investigations into Fluid Rock Interactions in the Rainy Lake Region
Detaya Johnson, Milwaukee WI

45 Metal Coated Porous Material for Phosphorus Removal from Water
Anne Barlas, Sturgeon Bay WI

Poster Number and Poster Title
Student Name, Hometown

UW-OSHKOSH

- 46 Analyzing the Progress of the Sustainable Development Goals: Identifying Sources of Problem Using a Production Function
Landyn Mills, Oshkosh WI
- 48 Elucidating the Role of 4-coumarate:CoA Ligase in Plant Cell Wall Biosynthesis
Wesley Morioka, Oshkosh WI
- 49 Leaning Out the Education System
Katrina Schiedemeyer, Oshkosh WI
- 50 Origin of Iron and Phosphate-rich Marine Sediments during the Last Snowball Earth Ice Age (ca. 640 Million Years before Present) and Their Significance for Biogeochemical Cycles, Mato Grosso, Brazil
Maxwel Schwid, Sussex WI
- 51 Underrepresented but Overexposed: Differences in Experiences with Discriminatory Behavior and Sexual Assault on Campus between Gender Minority and Cisgender Students
Rebecca Tolfa, Jackson WI

UW-PARKSIDE

- 52 Comparing Electronic Structure Computer Code Scaling on Small Computer Clusters of Differing Architectures
Evan Macintosh, Hales Corners WI
- 53 Economic Consequentialism, Environmental Policy, and Deep Ecology
Chelsea Snowden-Smith, Kenosha WI
- 54 Executive Decision for David Vision Insurance
Cristian Carrillo, Gurnee IL
- 55 False Recognition Memory Correlates with Problem Solving by Insight
Jasmine Gaines, Milwaukee WI
- 56 Hemispheric Differences in Change Deafness
Samantha Noll, Sturtevant WI
- 57 Sublethal Effects of Simulated Climate Change on Lentic Aquatic Invertebrate Assemblages
Nicholas Bielski, Bristol WI

UW-PLATTEVILLE

58 Acceptance of a Novel Cheese By-Product Powder by Young Ruminants

Stephanie Van Asten, Freedom WI

59 Determining Biochemical Response of Single Human Colorectal Carcinoma Cell to Cesium Using Microfluidics and Raman Spectroscopy

John Dank, Hillsboro WI

Nicole Maala, Manitowoc WI

Katie Schulteis, Farmington WI

Jessica Symons, Benton WI

Bridget White, Prairie du Chien WI

60 Exploring the Presence of Fire as a Key Ecological Process on Upper Midwest Landscapes from Past Millenia to the Present

Caleb Cizauskas, Sheboygan WI

Micah Darling, Sun Prairie WI

Adam Donaldson, Kronenwetter WI

Rebecca Hempe, Milwaukee WI

Ciara Miller, Prairie du Chien WI

61 Investigating the Role of Volatile Organic Compounds in Plant Symbiotic and Defense Signaling

Arlyn Ackerman, Prophetstown IL

Nathaniel Brimeyer, Dubuque IA

Michael Ely, Dixon IL

Sara Rubeck, Rockford IL

62 Investigation of Nanoscale Semiconductor Quantum Dots through Numerical Modeling

Samuel Belling, Fitchburg WI

63 Polyelectrolyte Nanofilms for Controlled Release Drug Delivery Applications

Sherrie Heinz-Kunert, Mahtomedi MN

Alexandra Mines, Peoria IL

Poster Number and Poster Title
Student Name, Hometown

UW-RIVER FALLS

- 64 Baseline Inventory of Native Pollinating Insects at New Biomonitoring Locations in Washburn County and Pierce County, Wisconsin
Jacquelyn Maher, River Falls WI
- 65 Determining Fertility in the Mare Using Reproductive History, Age, Vulvar Conformation, Rectal Palpation, Ultrasonography, and the Results of Uterine Culture and Endometrial Biopsy
McKenzie Sobkowiak, Holmen WI
- 66 Evaluation of Natural Background Concentration and Basin-Wide Non-Point Source Pollution of Phosphorus in the Kinnickinnic Subwatershed
Alexandra Spaulding, Merrill WI
- 67 Modeling Intestinal Tissue and Bacterial Microbiome Interactions: An Application of the Newly Developed "Histo-Genesis IV" Bioreactor System
Sarah Degroote, River Falls WI
- 68 Testing Properties of Light and Bell's Inequalities Using Spontaneous Parametric Down Conversion
Dagan Hathaway, Menomonie WI
- 69 Without a Roof: A Journalistic Study of Homelessness Across Wisconsin
Kate Vruwink, Wisconsin Rapids WI

UW-STEVENS POINT

- 70 Does Chronic Sleep Restriction Relate to Cognitive Function? An Examination of Chronic Sleep and Its Relationship with Cognitive Function in College Students
Teri Edlebeck, Stevens Point WI
Tara Schmidt, Marion WI
Nicole Slovinsky, Wisconsin Rapids WI
Mitchell Willert, Sun Prairie WI
- 71 Greenhouse Gas Emissions in Two Restored and One Natural Wetland
Alissa Johnson, East Bethel MN
- 72 Grit and the Unyielding Entrepreneur: The Effect of Sustained Interest and Effort on New Venture Initiation
Marissa Warzynski, Almond WI
- 73 HLA-DQ1 Alpha and Beta Genotypes Associated with Non-Celiac Gluten Sensitivity
Michael Maki, Deerfield IL
- 74 Impacts of Islam on Public Policy and Minority Groups in Egypt
Michelle Wilde, United Kingdom

75 Potential Effects of Gapeworm (*Syngamus trachea*) in Greater Prairie Chickens (*Tympanuchus cupido*) in Central Wisconsin
Jacob Shurba, Stevens Point WI

UW-STOUT

76 A Tale of Two Watersheds: Mapping Farmer Networks
Gunther Melander, Wilson WI

77 Exploring, Documenting, and Improving Humanitarian Service Learning through Engineers Without Borders U.S.
Damien Adamski, Eau Claire WI

78 Influence of Personality and Military Membership to Relationship Satisfaction
Cassandra Shoemaker, Portage WI

79 Sexual Assault and Dating Violence: Survey on a Rural College Campus
Courtney Wagner, Jim Falls WI

80 Understanding America's Prison Population and Recidivism Rates
Nathaniel Saverda, Marshfield WI

81 What Are We Really Eating?
Norah Alnowsir, Saudi Arabia
Margaret Freiermuth, Elmwood WI

UW-SUPERIOR

82 Enlightenment through Darkness: Use of the Paranormal in Dickens' Works
Erika Shearer, Barron WI

83 Feedback from Individuals Living with Mental Health Concerns in Douglas County
Megan Dirkes, Superior WI
Sara Moegenburg, Baileys Harbor WI

84 Genotype Analysis Confirms Development of Eya 3 Knockout Zebrafish for Future Tumor Studies
David Villani, Adelaide, Australia

85 Microplastics: Tiny Particles with Extraordinary Pollution Impacts
Cera Johnson, Superior WI

86 Overcoming Spontaneous Trait Inferences through Education
Maria Ammer, Superior WI

87 The Law's Double Bar: Exploring the Gap in Legal Protections for American Recording Artists
Nicholas Muska, Superior WI

Poster Number and Poster Title
Student Name, Hometown

UW-WHITEWATER

88 Poverty & Relief: Needs Assessment for the Community Action Coalition of South Central Wisconsin

Kiandra Davis, Milwaukee WI

89 Self Efficacy in Mathematics

Antwanette Bounds, Milwaukee WI

90 Students of Color Face Mental Health Concerns Due to High Expectations and Low Preparation

Jeesenia Zavala, Milwaukee WI

91 The Importance of Access to Financing for Small Businesses in Wisconsin

Brent Zey, De Pere WI

92 Transferring the C-terminus of the Chemokine CCL21 to CCL19 Confers Enhanced Heparin Binding

Alex Griffith, North Prairie WI

David Sackett, Rhinelander WI

93 Yellowstone Educational Game

Katherine Stull, New Berlin WI

STUDENT PRESENTERS BY WISCONSIN LEGISLATIVE DISTRICT

Legislative District

Senate/Assembly	Student Presenter	Institution	Poster
1 1	Anne Barlas	UW-Milwaukee	45
1 1	Sara Moegenburg	UW-Superior	83
1 2	Brent Zey	UW-Whitewater	91
2 4	Isaias Jauregui	UW-Green Bay	27
2 5	Jeremiah Shrovnal	UW-Green Bay	22
2 5	Stephanie Van Asten	UW-Platteville	58
2 6	Lucas Lytie	UW-Fox Valley	7
2 6	Michael Schulz	UW-Green Bay	26
2 6	Tara Schmidt	UW-Stevens Point	70
2 81	Andrew Schoepp	UW-Baraboo/Sauk County	4
3 7	Lee Stedman	UW-Waukesha	15
3 8	Jeesenia Zavala	UW-Whitewater	90
4 11	Cory Washington	UW-Madison	36
4 11	Juan Orjuela	UW-Milwaukee	41
4 12	Jacob Molkentin	UW-Waukesha	15
5 14	Rebecca Hempe	UW-Platteville	60
5 15	Katherine Stull	UW-Whitewater	93
6 16	Marijam Frahmand	UW-Milwaukee	40
6 17	Kiandra Davis	UW-Whitewater	88
6 18	Detaya Johnson	UW-Milwaukee	44
6 18	Antwanette Bounds	UW-Whitewater	89
7 19	Christopher Spiewak	UW-Milwaukee	42
7 21	Benjamin Schilz	UW-La Crosse	33
8 24	Justin Nolan	UW-Washington County	12
9 25	Brett Meyer	UW-La Crosse	30
9 25	Nicole Maala	UW-Platteville	59
9 26	Steven Kaplan-Pistiner	UW-Madison	39
9 26	Caleb Cizauskas	UW-Platteville	60
9 27	Bob Aloisi	UW-Sheboygan	11
9 27	Ryan Kisiolek	UW-Sheboygan	11
10 29	Michael McDonnell	UW-Eau Claire	19
10 29	Dagan Hathaway	UW-River Falls	68
10 29	Norah Alnowsir	UW-Stout	81
10 29	Gunther Melander	UW-Stout	76
10 30	Jacquelyn Maher	UW-River Falls	64
10 30	Sarah Degroote	UW-River Falls	67
11 33	Emily Burg	UW-Madison	34

Legislative**District**

Senate/Assembly	Student Presenter	Institution	Poster
12 34	David Sackett	UW-Whitewater	92
12 35	Alexandra Spaulding	UW-River Falls	66
14 40	Hannah Fudge	UW-Fox Valley	8
14 41	Danielle Schroeder	UW-Eau Claire	16
14 42	Madilyn Vetter	UW-Baraboo/Sauk County	1
14 42	Alissa Shortreed	UW-Baraboo/Sauk County	3
14 42	Brielle Shortreed	UW-Baraboo/Sauk County	3
15 45	Peter Kelly	UW-Rock County	10
16 46	Marissa Despina	UW-La Crosse	31
16 46	Micah Darling	UW-Platteville	60
16 46	Mitchell Willert	UW-Stevens Point	70
16 47	Marissa Stehly	UW-La Crosse	32
16 47	Samuel Belling	UW-Platteville	62
17 49	Jessica Symons	UW-Platteville	59
17 49	Arlyn Ackerman	UW-Platteville	61
17 49	Nathaniel Brimeyer	UW-Platteville	61
17 49	Michael Ely	UW-Platteville	61
17 49	Sara Rubeck	UW-Platteville	61
17 49	Sherrie Heinz-Kunert	UW-Platteville	63
17 49	Alexandra Mines	UW-Platteville	63
18 53	Lianna Hawi	UW-Milwaukee	43
18 53	Katrina Schiedemeyer	UW-Oshkosh	49
18 54	Landyn Mills	UW-Oshkosh	46
18 54	Wesley Morioka	UW-Oshkosh	48
19 56	Adam Ulman	UW-Green Bay	23
20 58	Katelynn Marohl	UW-Washington County	12
20 58	Rebecca Tolfa	UW-Oshkosh	51
20 60	Katie Schulteis	UW-Platteville	59
21 61	Nicholas Bielski	UW-Parkside	57
21 63	Samantha Noll	UW-Parkside	56
22 64	Chelsea Snowden-Smith	UW-Parkside	53
22 65	Cristian Carrillo	UW-Parkside	54
23 67	Courtney Wagner	UW-Stout	79
23 68	Scott Nesbit	UW-Eau Claire	17
23 69	Lena Law	UW-Madison	35
23 69	Nathaniel Saverda	UW-Stout	80
24 70	Kate Vruwink	UW-River Falls	69
24 71	Michelle Wilde	UW-Stevens Point	74
24 71	Teri Edlebeck	UW-Stevens Point	70

Legislative**District**

Senate/Assembly		Student Presenter	Institution	Poster
24	71	Alissa Johnson	UW-Stevens Point	71
24	71	Marissa Warzynski	UW-Stevens Point	72
24	71	Michael Maki	UW-Stevens Point	73
24	71	Jacob Shurba	UW-Stevens Point	75
24	72	Nicole Slovensky	UW-Stevens Point	70
25	73	Megan Dirkes	UW-Superior	83
25	73	David Villani	UW-Superior	84
25	73	Cera Johnson	UW-Superior	85
25	73	Maria Ammer	UW-Superior	86
25	73	Nicholas Muska	UW-Superior	87
25	75	Erika Shearer	UW-Superior	82
26	76	Jarjeh Fang	UW-Madison	37
26	76	Swetha Saseedhar	UW-Madison	37
26	77	David Christian	UW-Green Bay	23
27	81	Kody Friend	UW-Baraboo/Sauk County	2
27	81	Ryan Ramnarace	UW-Baraboo/Sauk County	2
27	81	Sam Gasser	UW-Baraboo/Sauk County	4
27	81	Luke Moat	UW-Baraboo/Sauk County	5
27	81	Kevin Veloso	UW-Baraboo/Sauk County	6
27	81	Lane Steinhaus	UW-Madison	38
27	81	Cassandra Shoemaker	UW-Stout	78
28	83	Evan Macintosh	UW-Parkside	52
28	84	Jasmine Gaines	UW-Parkside	55
29	85	Riley Sterman	UW-Marathon County	9
29	86	Adam Donaldson	UW-Platteville	60
30	88	Emily Vandersteen	UW-Green Bay	24
30	88	Anne Linkenheld	UW-Green Bay	25
30	90	Clinton Rettler	UW-Green Bay	26
31	91	Irene Ng	UW-Eau Claire	20
31	91	Sophie Grelson	UW-Eau Claire	21
31	91	Khadel Akindoloire-King	UW-La Crosse	31
31	91	Damien Adamski	UW-Stout	77
31	92	Erin Zigler	UW-Eau Claire	21
31	93	Sarah Sortedahl	UW-Eau Claire	18
31	93	Margaret Freiermuth	UW-Stout	81
32	94	Gaokhia Yang	UW-La Crosse	29
32	94	McKenzie Sobkowiak	UW-River Falls	65
32	95	Molly Malone	UW-Madison	38
32	96	John Dank	UW-Platteville	59

**Legislative
District**

Senate/Assembly	Student Presenter	Institution	Poster
32 96	Bridget White	UW-Platteville	59
32 96	Ciara Miller	UW-Platteville	60
33 97	Robert Hall	UW-Waukesha	14
33 98	Kesha Patel	UW-Waukesha	14
33 98	Maxwel Schwid	UW-Oshkosh	50
33 99	Christian Reese	UW-Waukesha	13
33 99	Jared Stoner	UW-Waukesha	15
33 99	Hunter Rehm	UW-La Crosse	28
33 99	Alex Griffith	UW-Whitewater	92

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