

15TH ANNUAL

# Research in the Rotunda

*Showcasing the Work of UW Undergraduates*

[wisconsin.edu/research-in-the-rotunda](http://wisconsin.edu/research-in-the-rotunda)

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## 15TH ANNUAL

# RESEARCH IN THE ROTUNDA

*April 11, 2018*

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## SCHEDULE INFORMATION

**10AM-2PM – POSTERS DISPLAY, CAPITOL ROTUNDA**

**12PM – REMARKS, CAPITOL ROTUNDA**

*Speakers: Ray Cross, President, University of Wisconsin System  
Elizabeth (Beth) L. Ambos, Executive Officer, Council on  
Undergraduate Research*

# FROM THE PRESIDENT



Dear Education Partner,

Welcome to the UW System's 15th 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 the students who created them have experienced. They are a tangible representation of our ongoing commitment to expanding knowledge beyond our campuses and represent the kind of ideas that are instrumental to future success.

Through partnering with our accomplished faculty, each student has a rewarding opportunity to challenge their critical problem-solving skills, as well as develop their ability to manage a project and work with a team. By compiling their research findings, students are able to communicate their ideas clearly using verbal and writing skills. The benefits go far beyond the classroom and the research poster on display because students will be able to use these valuable skills in their future careers.

The impact of these projects extends beyond the campuses as well. Students investigated real-life issues affecting local, national, and international 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. Experts estimate that 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 workforce. Research is a key focus of UW System's 2020FWD strategic framework, which emphasizes the importance of promoting a culture and investing resources that reward innovation through basic and applied research. This event celebrates the achievements and aspirations of student researchers, and shows how research can be integral to improving the quality of life for Wisconsin citizens.

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 were significantly involved.

Most importantly, we congratulate the talented students whose work represents the unique and critical role research plays throughout the UW System and beyond. 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 fluid and cursive, with the first name "Ray" being larger and more prominent than the last name "Cross".

Ray Cross  
President

# BOARD OF REGENTS

Regent Robert Atwell

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Regent Tony Evers

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Regent Tracey L. Klein

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Regent Ryan L. Ring

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Regent Gerald Whitburn

# CHANCELLORS

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*University of Wisconsin–Stevens Point*

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*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

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*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

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*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.

<b>Faculty Adviser</b>	<b>Institution</b>	<b>Poster</b>	<b>Legislative District Senate/Assembly</b>	
Stephen Swallen	UW-Baraboo/Sauk County	1	27	81
Kirthi Premadasa	UW-Baraboo/Sauk County	1	27	81
Noah Anderson	UW-Baraboo/Sauk County	2	17	50
David Olson	UW-Baraboo/Sauk County	3	27	81
Erin DeMuyck	UW-Fox Valley	4	19	57
Tammy Ladwig	UW-Fox Valley	5, 7	19	56
Richard Hein	UW-Manitowoc	6	9	25
Rebecca Abler	UW-Manitowoc	6	9	25
Mark Klemp	UW-Marinette	8	2	4
Renee Richer	UW-Marinette	8	30	89
Mohamed Ayoub	UW-Washington County	9	20	58
Gregg Jamison	UW-Waukesha	10	27	80
Jill Rinzel	UW-Waukesha	11	16	46
Suzanne Joneson	UW-Waukesha	12	33	97
Scott Bailey-Hartsel	UW-Eau Claire	13	31	91
Nancy Hanson-Rasmussen	UW-Eau Claire	14	31	91
Patricia Turner	UW-Eau Claire	15	23	68
April Bleske-Reчек	UW-Eau Claire	16	23	68
Elizabeth Glogowski	UW-Eau Claire	17	31	91
Matthew Jewell	UW-Eau Claire	18	31	91
Regan A. R. Gurung	UW-Green Bay	19	2	4
Timothy Kaufman	UW-Green Bay	20	2	30
Patrick Forsythe	UW-Green Bay	21	30	88
Gaurav Bansal	UW-Green Bay	22	30	88
Karen Stahlheber	UW-Green Bay	23	30	88
Brian Welsch	UW-Green Bay	24	30	90
Amy Nicodemus	UW-La Crosse	25	32	95
Christine Hippert	UW-La Crosse	26	32	95
Susan Kelly	UW-La Crosse	27	32	94
Lisa Kruse	UW-La Crosse	28	32	95
Niti Mishra	UW-La Crosse	29	32	94



<b>Faculty Adviser</b>	<b>Institution</b>	<b>Poster</b>	<b>Legislative District Senate/Assembly</b>	
Todd Weaver	UW-La Crosse	30	32	95
Jennifer Schomaker	UW-Madison	31	26	76
Angela Pakes	UW-Madison	32	27	80
Janet Batzli	UW-Madison	33	26	76
Michelle Harris	UW-Madison	33	26	76
Joshua Kelley	Univ of Maine	33		
Seth McGee	UW-Madison	33	26	76
Jerry Zhu	UW-Madison	34	27	79
Byron Shafer	UW-Madison	35	27	80
Ruben Medina	UW-Madison	36	16	47
Ionel Popa	UW-Milwaukee	37	7	19
Gary Williams	UW-Milwaukee	38	8	24
Nicholas Silvaggi	UW-Milwaukee	39	20	60
Nemanja Vuksanovic	UW-Milwaukee	39	7	19
Douglas Steeber	UW-Milwaukee	41	7	19
Hugo Lopez	UW-Milwaukee	42	7	19
Joshua Foster	UW-Oshkosh	43	18	54
Sabrina Mueller-Spitz	UW-Oshkosh	44	18	53
Victoria Beck	UW-Oshkosh	45	18	53
Marcel Dijkstra	UW-Oshkosh	46	19	56
Sheri Lense	UW-Oshkosh	47	18	53
Sarah Kucker	UW-Oshkosh	48	18	53
Lisa Kornetsky	UW-Parkside	49	7	19
Jessica Orlofske	UW-Parkside	50	21	62
Peggy James	UW-Parkside	51	21	61
Hom Kandel	UW-Parkside	52	22	64
Melissa Gregg	UW-Parkside	53	21	62
Justin White	UW-Parkside	54	22	64
Eugene Tesdahl	UW-Platteville	55	17	49
James Hamilton	UW-Platteville	56	17	49
Raymond Pugh	UW-Platteville	57	17	49
Dennis Busch	UW-Platteville	58	17	49
Andrew Cartmill	UW-Platteville	58	17	49
Gokul Gopalakrishnan	UW-Platteville	59	17	49
Songqing Yue	UW-Platteville	60	17	49
Lowell McCann	UW-River Falls	61	10	30
Veronica Justen	UW-River Falls	62	31	93
James Madsen	UW-River Falls	63	10	30
Surujhdeo Seunarine	UW-River Falls	63	10	30

<b>Faculty Adviser</b>	<b>Institution</b>	<b>Poster</b>	<b>Legislative District Senate/Assembly</b>	
Lisa Kroutil	UW-River Falls	64	10	30
Kathy Tomlinson	UW-River Falls	65	10	30
Kevyn Juneau	UW-River Falls	66	10	30
Joshua Raabe	UW-Stevens Point	67	24	71
Joseph Mondloch	UW-Stevens Point	68	24	70
Daniel Keymer	UW-Stevens Point	69	24	71
Jacob Prater	UW-Stevens Point	69	24	71
Robert Michitsch	UW-Stevens Point	69	24	71
Nikolaus Butz	UW-Stevens Point	70	24	71
Taylor Easum	UW-Stevens Point	71	24	71
Tamas Bodor	UW-Stevens Point	72	24	71
Eun Joo Lee	UW-Stout	73	10	29
Jennifer Grant	UW-Stout	73	10	29
Ana M.Q. Vande Linde	UW-Stout	74	10	29
Arthur Kneeland	UW-Stout	75	10	29
Tommi Smeltzer	UW-Stout	76	10	29
Tina Lee	UW-Stout	77	10	29
Melissa Emerson	UW-Stout	78	31	91
Khalil Dokhanchi	UW-Superior	79	25	73
Alison Wielgus	UW-Superior	80	25	73
Maria Stalzer Wyant				
Cuzzo	UW-Superior	81	25	73
Patricia Beech	UW-Superior	82	25	73
Kenna Bolton Holz	UW-Superior	83	25	73
Hilary Fezzey	UW-Superior	84	25	73
Lynn Gilbertson	UW-Whitewater	85	15	45
Meg Waraczynski	UW-Whitewater	86	15	43
Christopher				
Calvert-Minor	UW-Whitewater	87	15	43
Barbara Beaver	UW-Whitewater	88	13	38
Anneke Lisberg	UW-Whitewater	89	11	33
Jonah Ralston	UW-Whitewater	90	11	33

## STUDENT PRESENTERS BY INSTITUTION

### Poster Number and Poster Title

*Student Name, Hometown*

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#### UW-BARABOO/SAUK COUNTY

**1 As Slick As ... Butter!**

*Desiree Buchholz, Westfield, WI*

**2 Eaten Alive: The Biology and Ethics of Pain and Sentience**

*MaKenna Ort, Sauk City, WI*

**3 Genetic Characterization of Sauk Prairie Remnant Flora**

*Lane KoBel, Mauston, WI*

#### UW-FOX VALLEY

**4 An Analysis of Impacts of the 2013 Public School Closures on Chicago Communities**

*Eric McDaniel, Appleton, WI*

**5 Financial and Social Inequality in Wisconsin Public Schools**

*Gage Moede, Appleton, WI*

**6 Phosphate Trends of Centerville Creek in Manitowoc County, WI**

*Abigail Adams, Two Rivers, WI*

*Paige Arneson, Newton, WI*

*Bethanie Ebben, Reedsville, WI*

*Alec Seguin, Manitowoc, WI*

*Nickolas Wiedemann, Manitowoc, WI*

**7 The Wisconsin in Scotland Study Abroad Program: Civic Engagement as a High Impact Practice in a Class on Pluralism**

*Shelby Manor, Bay City, WI*

*Brittanie Williamson, Evansville, IN*

*Katie Ziemer, Reedsville, WI*

#### UW-MARINETTE

**8 Cyanobacteria's Bioremediation Capacity for Chromium (VI)**

*Sarah Klemp, Green Bay, WI*

*Co-authors: Becky Berry, Nadia Khayat*

#### UW-WASHINGTON COUNTY

**9 Testing Experimental and Theoretical Descriptors of Selected Hydrogen Bonded Complexes: Natural Bond Orbital Study**

*Amelia Hansen, West Bend, WI*

*Benjamin Spicer, Cedarburg, WI*

**Poster Number and Poster Title**  
*Student Name, Hometown*

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**UW-WAUKESHA**

**10 Prehistory Etched in Stone: Archaeological Analysis of Acheulean Hand Axes at UW-Waukesha**

*Megan Johnson, Pewaukee, WI*  
*Miranda Kennison, Pewaukee, WI*  
*Christopher Ricci, Mukwonago, WI*

**11 The Soundtrack to Life Experience**

*Thadd Sapa-Kotlarek, Elm Grove, WI*

**12 Thermal Stress and Antibiotic Resistance in *Escherichia coli***

*Jeremiah Swanson, Waukesha, WI*

**UW-EAU CLAIRE**

**13 Antifungal Effectiveness on *Candida albicans* under Hyperbaric Conditions**

*Claudia Tourville, Kimberly, WI*

**14 Autism in the Workplace: An Investigation of Germany and the United States**

*Johannah Erffmeyer, Eau Claire, WI*  
*Co-authors: Melanie Bauer, Garrett Doubleday*

**15 Historytelling: An Interdisciplinary Digital Humanities Project for the Elementary and Secondary Classroom**

*Megan Henning, Germantown, WI*  
*Bryce Mohr, Sparta, WI*

**16 Hovering Questions: Are Therapeutic Touch and Healing Touch Evidence-Based Practices?**

*Keith Jorgensen, Albertville, MN*  
*Katie Paulich, Eau Claire, WI*

**17 "Smart" Applications of PDMAEMA Copolymers from Thermoresponsive Testing**

*Elizabeth Laskowski, Osseo, WI*

**18 The Role of Sample Preparation Techniques in Assessing Mechanical Damage in YBCO Superconducting Tapes**

*Kasey Berger, Port Washington, WI*  
*Co-author: Tanner Olson*

**UW-GREEN BAY**

**19 A Full Serving of Restaurant Server Experiences: Sexual Harassment in the Restaurant Industry**

*Amberee Jorgenson, Green Bay, WI*

**20 A Qualitative Study of Best Practices in Police School Partnerships**

*Emily Clark, Morrison, IL*

## Poster Number and Poster Title

*Student Name, Hometown*

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21 Community Structure and Diet Composition of Fishes Within the Lower Fox River, Green Bay, Wisconsin

*Spencer Vanderbloemen, Suamico, WI*

*Co-author: Stefan Tucker*

22 Shipping and Return-Shipping Costs Do Not Cost the Same! Examining the Role of Shipping Costs, Gender and Product Price in Online Buying

*Emma Nies, Green Bay, WI*

23 Soil Communities and Switchgrass: Mycorrhizal and Microbial Effect on Plant Growth and Phosphorus Uptake

*Kenzie Ostien, Sun Prairie, WI*

24 What Are the Roles of Magnetic Field and Flare Ribbon Structure on CME Dynamics

*David Ginsburg, Green Bay, WI*

## UW-LA CROSSE

25 Analysis of Ritual Activity During the Bronze Age Occupation of Pecica Șanțul Mare, Romania

*Kyle Willoughby, Holdingford, WI*

26 Examining the Role of the Pirwa's After-School Program for Children in the Community of Huancarani, Bolivia

*Ashley Schwartz, Lodi, WI*

27 Lee Lorch: A Civil Rights Mathematician

*Kelly Emmrich, Ripon, WI*

28 Racial Disparities in Wisconsin: How Freedom Schools Can Close the Gap

*Sadie Halfrich, Maple Grove, MN*

29 Species Level Mapping of Treeline Vegetation in Himalayan, Nepal Using Unmanned Aerial Systems

*Jackson Radenz, Wausau, WI*

30 Structural and Functional Effects of Altering the Nonpolar Core of Hemolysin A

*Gage Stuttgen, Onalaska, WI*

## UW-MADISON

31 A Route to Eflornithine Analogs via Oxidative Allene Amination

*Lucas Oxtoby, Howards Grove, WI*

32 Eva the Engineer: Encouraging Young Women at the Intersection of Engineering and Sustainability

*Tyler Klink, Arlington, WI*

*Renee Olley, Geraldine, New Zealand*

*Morgan Sanger, La Crosse, WI*

## Poster Number and Poster Title

*Student Name, Hometown*

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### 33 Investigating Receptor Dynamics in Cell Signaling Using Baker's Yeast

*Madeleine Blazel, Berlin, WI*

*Anna Kosmach, Bloomington, MN*

*Claudia Schmitt, St. Paul, MN*

### 34 Search-Based Program Synthesis for Computer Science Education

*Evan Hernandez, Bartlett, IL*

*Co-author: Ara Vartanian*

### 35 The Invisible Primary Versus Real Elections: Advance Politicking in Presidential Politics, 1980-2016

*Negassi Tesfamichael, Greenfield, WI*

### 36 The LatinX Immigrant Experience in Fiction: The Link Between Legality and Identity

*Liliana Lule, Skokie, IL*

## UW-MILWAUKEE

### 37 A Computer Model to Simulate the Nanoscale Force Response of Protein Hydrogels

*Kirill Shmilovich, Whitefish Bay, WI*

### 38 African American Males' Perception of High School Teacher Efficacy

*Carl Greer, Milwaukee, WI*

### 39 Engineering Enzymes Involved in Non-Ribosomal Peptide Antibiotic Synthesis

*Brandon Patterson, Clinton, WI*

*Co-authors: Lanlan Han, Nemanja Vuksanovic*

### 41 Improving Cancer Treatment through Depletion of Myeloid Derived Suppressor Cells in a 4T1 Breast Cancer Model

*Jessye Hale, New Berlin, WI*

### 42 Numerical Approximation of Solidification Behavior in Co-27Cr-5Mo-0.25C Alloys during Pulsed Laser and Tungsten Inert Gas (TIG) Welding of As Cast Biomedical Inserts

*Emily Gerstein, Pleasant Prairie, WI*

## UW-OSHKOSH

### 43 An Experimental Study in Zero and Negative Prices: Replications and New Evidence

*Christopher Smith, Winnebago, IL*

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*Student Name, Hometown*

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**44 Characterization of Biomass Degrading *Bacillus* and *Paenibacillus* Species from a Wet Fermentation Digester**

*Samantha Nixon, Wadsworth, IL*

*Co-authors: Jane Ballesteros, Zachary Bowers, Megan DeCoster, Paul Denil, Konrad Fondrie, Jenna Fossen, Laura Hagen, Olivia Juel, Morgan Rymer, Samantha Schroeder*

**45 Gender Bias Among Students**

*Sheena Gilbert, Kaukauna, WI*

**46 Phosphorus Dynamics in Lake Decatur, IL**

*Brittany Lutz, Oshkosh, WI*

*Co-author: Miles Corcoran*

**47 The Effect of Acid Strength on Catalytic Conversion of CO<sub>2</sub> to Value-Added Chemicals**

*Kara Gillette, Oshkosh, WI*

**48 What Makes a Cup, a Cup? How Known Words Impact Generalization Abilities and Language Outcomes**

*Blair Braun, Appleton, WI*

*Erin Seidler, Birnamwood, WI*

**UW-PARKSIDE**

**49 Documentation of the Production Process: "Angels in America"**

*Scarlette Kinderman, Racine, WI*

**50 Inferring Food-webs from Avian Parasites**

*Waynette McCracken, Kenosha, WI*

**51 Partisanship in State Government and Its Affects on Higher Education Funding**

*Todd Yunker, Kenosha, WI*

**52 Synthesis Process and Electronic Properties of Cobalt Doped PBCO for Use in Superconductor-Insulator-Superconductor (S-I-S) Josephson Junction Devices**

*Nathan Arndt, Racine, WI*

**53 The Enhancing Effect of Attention**

*Jeremy Wilbourn, Pleasant Prairie, WI*

**54 Waukesha Diversion: Modeling River Flow Scenarios from the Root River Dam Removal**

*Joshua Carlson, Racine, WI*

**Poster Number and Poster Title**  
*Student Name, Hometown*

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**UW-PLATTEVILLE**

**55 African American Lead Miners in Wisconsin**

*Victoria Kosobucki, Stevens Point, WI*  
*Elizabeth Larrison, Hampton, IL*  
*Simone Rand, Milwaukee, WI*  
*Winifred Redfearn, Hazel Green, WI*  
*Deja Roberson, Milwaukee, WI*

**56 Contamination Control with Designer Polymers for NASA's Starshade Telescope**

*Austin Rickertsen, Calamus, IA*  
*Co-author: David Giesen*

**57 Determining the Effects of Abiotic Stress-Induced Reactive Oxidative Species (ROS) Generation on Plant Mitochondrial Metabolism**

*Daniel Lowe, Durand, IL*  
*Benjamin Muhlstein, Darlington, WI*

**58 Incorporating Dairy Livestock into Agroecosystems Research: Grazing Responsibly for a Sustainable Tomorrow**

*Brett Pluemer, Livingston, WI*

**59 Silicon Nanomembranes: A Technology Platform for Micro and Nanoscale Devices**

*Nicholas Hemenway, Sheboygan, WI*  
*Adam Heuermann, Washington, IL*  
*Jacob Sina, St. Louis Park, MN*  
*Brandon Wisinski, Platteville, WI*  
*Co-authors: Benjamin Ambrosini, Hannah Ihlenfeldt, Nicholas Jones*

**60 SPOT: A Domain-Specific Language Made for Code Modification**

*Cole Nelson, Hingham, WI*

**UW-RIVER FALLS**

**61 Design and Construction of a Myoelectric Partial Hand Prosthesis**

*Roman Alvarado, Medford, WI*

**62 Effects of Agricultural Pollinator Conservation Practices on Species Richness and Diversity**

*Nathan Grosse, River Falls, WI*

**63 Effects of Snow on the Count Rate of the South Pole Neutron Monitors**

*Begad Elmelligy, River Falls, WI*  
*Grace Zeit, Deerbrook, WI*

**64 Exploration of Antioxidant and Radical Scavenging Activity of Preparations of Roses**

*Daniel Parlin, River Falls, WI*  
*Miranda Rang, Baldwin, WI*



## Poster Number and Poster Title

*Student Name, Hometown*

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### 65 It's All Greek to Me: An Investigation of the Diffusion of Languages Based on Dynamic Influences

*Roman Alvarado, Medford, WI*

*Emily Cobian, Hager City, WI*

*Austin Wilcox, Hager City, WI*

### 66 The Effect of Invasive Macrophytes on Turtle Community Structure in the Kinnickinnic Watershed

*Crystal Carpenter, River Falls, WI*

## UW-STEVENS POINT

### 67 Brook Trout Movements, Spawning, and Survival in the Little Plover River Prior to Watershed Restoration

*Benjamin Schleppenbach, Stoughton, WI*

### 68 Designing Porous Solids

*John Flood, Eden, WI*

*Dominion Fredericks, Appleton, WI*

### 69 Effects of Vermicompost and Vermicompost Tea on Ginseng Production at Three Wisconsin Sites

*Brooke Bembeneck, Stevens Point, WI*

*Lindsey Carlson, Janesville, WI*

### 70 Hiring Decisions in Central Wisconsin

*Jordan Stuart, Rhinelander, WI*

### 71 Stevens Point Food Markets

*Mikaela Franson, Mosinee, WI*

*Co-authors: Daniel J Krommenakker, Caitlin J Stathus*

### 72 The Making of an Electoral Upset

*Steven Macherey, West Bend, WI*

## UW-STOUT

### 73 Effect of Metal Binding Proteins on the Surface of a Model of Tooth Decay

*Richard Shipman, Spooner, WI*

### 74 Effect of Zinc Application on Cadmium Absorption in Kale and Snow Peas

*Alexandra Ciak, New Richmond, WI*

*Co-authors: Brent Deaver, Christina Hang, Lillie Kus, Lilia Theisen, MaiHer Xiong*

## Poster Number and Poster Title

*Student Name, Hometown*

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75 Effects of Varying Volumes of Recycled Stream Sediment on the Nutrient Content of *Avena sativa*

*Bailey Kramer, Elk Mound, WI*

76 Green Fabrics: An Analysis of Top Sustainable Fabrics

*Cambria Sinclair, De Pere, WI*

77 Public Land Usage: Development of Social and Economic Relations

*Alexander Beyer, Hudson, WI*

78 The Pretrial Criminal Process: Structural Violence Within Alabama's Bail Bond Industry

*Rebecca Doan, Abrams, WI*

### UW-SUPERIOR

79 Comparative Case Analysis of Sanitation Systems in Five Refugee Camps: Do Improved Sanitation Systems Prevent Cholera Outbreaks?

*Chantele Nelson, Duluth, MN*

80 Contemporary Stop-Motion Animation: Resurrecting a Handmade Form in a Digital Era

*Megan McGarvey, Superior, WI*

81 Mediator Style Fashionistas: What are Mediator Styles and Do They Matter to Mediators or Parties?

*Reggie Semanko, Lake Nebagamon, WI*

82 Return on Investment Analysis of Community Action Duluth Programs

*Tracy Jenny, Hermantown, MN*

*Tasha Jokela, Superior, WI*

*Co-authors: Kristen Sherlock, Starr Wills*

83 Role Congruity Theory and Hiring Preferences

*Jenessa Cabak, Ladysmith, WI*

84 The Appearance of Archetypes in Lewis Carroll's *Through the Looking-Glass*

*Jennifer Reiten, Superior, WI*

### UW-WHITEWATER

85 Designing a Functional 3D Printable Model of the Human Larynx to Improve Student Learning

*Tiffany Bianco, Waukesha, WI*

*Julia Clayton, Oswego, IL*

*Connor Yass, Waukesha, WI*

86 Evaluating Intervention Strategies for Individuals with Operating While Intoxicated Offenses

*Alissa Zawacki, Eau Claire, WI*

**Poster Number and Poster Title**  
*Student Name, Hometown*

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**87 Examination of Media Biases and the Public's Perception**

*Randolph Harvey, Milwaukee, WI*

**88 Mental Health in African American Youth: Barriers to Intervention**

*Adah Muwonge, Milwaukee, WI*

**89 Observations of Over-mark Placement on Domestic Dogs**

*Katlynn Benitez, Greendale, WI*

**90 Understanding Attrition in the Free and Reduced School Lunch Program**

*Nate Kelty, Fort Atkinson, WI*

# STUDENT PRESENTERS BY WISCONSIN LEGISLATIVE DISTRICT

## Legislative District

Senate/Assembly	Student Presenter	Institution	Poster
1 2	Abigail Adams	UW-Manitowoc	6
1 2	Emma Nies	UW-Green Bay	22
1 3	Claudia Tourville	UW-Eau Claire	13
1 3	Megan DeCoster	UW-Oshkosh	44
1 3	Dominion Fredericks	UW-Stevens Point	68
2 4	Sarah Klemp	UW-Marinette	8
2 5	Sheena Gilbert	UW-Oshkosh	45
3 7	Simone Rand	UW-Platteville	55
4 11	Carl Greer	UW-Milwaukee	38
4 12	Randolph Harvey	UW-Whitewater	87
5 13	Thadd Sapa-Kotlarek	UW-Waukesha	11
6 17	Deja Roberson	UW-Platteville	55
8 23	Kirill Shmilovich	UW-Milwaukee	37
8 23	Jane Ballesteros	UW-Oshkosh	44
8 24	Megan Henning	UW-Eau Claire	15
9 25	Bethanie Ebben	UW-Manitowoc	6
9 25	Alec Seguin	UW-Manitowoc	6
9 25	Nickolas Wiedemann	UW-Manitowoc	6
9 25	Paige Arneson	UW-Fox Valley	6
9 25	Katie Ziemer	UW-Stevens Point	7
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9 26	Cole Nelson	UW-Platteville	60
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10 29	Miranda Rang	UW-River Falls	64
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10 30	Daniel Parlin	UW-River Falls	64
10 30	Crystal Carpenter	UW-River Falls	66
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14 42	Ashley Schwartz	UW-La Crosse	26
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15 43	Julia Clayton	UW-Whitewater	85
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17 49	Elizabeth Larrison	UW-Platteville	55
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31 93	Austin Wilcox	UW-River Falls	65
31 93	Emily Cobian	UW-River Falls	65
32 94	Gage Stuttgen	UW-La Crosse	30
32 94	Morgan Sanger	UW-Madison	32
32 95	Kyle Willoughby	UW-La Crosse	25
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32 95	Jackson Radenz	UW-La Crosse	29
33 97	Tiffany Bianco	UW-Whitewater	85
33 98	Miranda Kennison	UW-Waukesha	10
33 98	Megan Johnson	UW-Waukesha	10
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