

Posters in the Rotunda

Showcasing UW Undergraduate Research

CAPITOL ROTUNDA MADISON, WI APRIL 13, 2016

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POSTERS IN THE ROTUNDA

April 13, 2016

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SCHEDULE INFORMATION

9:30-10AM - WELCOME CEREMONY

Grand Army of the Republic Room 417N and 413N, State Capitol

Speaker: Ray Cross, President, University of Wisconsin System

10AM-3PM POSTERS DISPLAY, CAPITOL ROTUNDA

FROM THE PRESIDENT



MARCH 16, 2016

Dear Education Partner,

Welcome to the UW System's 13th Annual Posters in the Rotunda Undergraduate Research Event. 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 that the students who created them have experienced. Put another way, they are a tangible representation of our ongoing commitment to expanding human knowledge and improving the human condition, the cornerstone of our educational mission. These projects also represent the kind of ideas and knowledge that are critical to the future of our economy.

Working with our talented faculty, each student has a unique opportunity to challenge themselves and develop critical skills that will serve them throughout their careers. Beyond the knowledge gained in their respective fields of study, students involved in these endeavors develop their ability to manage a project, work with a team, and communicate their ideas clearly. The benefits go far beyond the classroom and far beyond the poster on display.

The impact of these projects extends beyond the campuses as well. Issues addressed or investigated in this research are real-life issues affecting Wisconsin citizens and communities. The research being done here has the potential to inform public policy and decisions made by the private sector. This is a powerful illustration of the UW's ongoing commitment to the Wisconsin Idea.

Finally, these posters are 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 nearly a \$20-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. This event celebrates that.

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 System and our state.

Cordially,

Ray Cross President

BOARD OF REGENTS

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Regent Eve Hall

Regent Nicolas Harsy

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Regent Edmund Manydeeds

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Regent Janice Mueller

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Regent S. Mark Tyler

Regent José F. Vásquez

Regent Gerald Whitburn

UW CHANCELLORS

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University of Wisconsin–Eau Claire

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University of Wisconsin-La Crosse

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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 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

Regional CEO/Dean Keith Montgomery, North UW-Barron County UW-Marathon County UW-Marshfield/Wood County UW-Marinette

Regional CEO/Dean Martin Rudd, Northeast *UW-Fond du Lac UW-Fox Valley UW-Manitowoc*

Regional CEO/Dean Jackie Joseph-Silverstein, Southeast UW-Sheboygan UW-Washington County UW-Waukesha

Regional CEO/Dean Charles Clark, Southwest *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 Distri Senate/Assembly	
Melissa Hage	UW-Baraboo/Sauk County	1	27 81	
Musa Ayar	UW-Baraboo/Sauk County	2	27 79	
Tom Neal	UW-Baraboo/Sauk County	3	26 76	
Marc Seals	UW-Baraboo/Sauk County	4	27 81	
Gregg Jamison	UW-Fond du Lac	5	27 80	
David Demezas	UW-Fond du Lac	6	18 52	
Beth Johnson	UW-Fox Valley	7	19 57	
Richard Hein	UW-Manitowoc	8	9 25	
Caleb Bush	UW-Marshfield/Wood County	9, 10	23 69	
Norlene Emerson	UW-Richland	11	17 50	
Mark Schmitz	UW-Sheboygan	12, 13	9 27	
Mohamed Ayoub	UW-Washington County	14	20 58	
Quintin Bendixen	UW-Waukesha	15	33 98	
Karen Mumford	UW-Eau Claire	16	31 91	
J. Brian Mahoney	UW-Eau Claire	17	31 91	
Stephen Sellwood	UW-Eau Claire	17	26 78	
Eric Jamelske	UW-Eau Claire	18	31 91	
Sydney				
Chinchanachokchai	UW-Eau Claire	18	31 91	
Tom Sather	UW-Eau Claire	19	31 91	
Jerry Hoepner	UW-Eau Claire	19	31 91	
Elizabeth Glogowski	UW-Eau Claire	20	31 91	
Kelly Biers	UW-Eau Claire	21	31 91	
Robert Howe	UW-Green Bay	22	30 88	
Sawa Senzaki	UW-Green Bay	23	2 4	
Kevin Fermanich	UW-Green Bay	24	30 88	
Christopher Houghton	UW-Green Bay	25	1 1	
Patrick Forsythe	UW-Green Bay	25	30 88	
Ryan Holzem	UW-Green Bay	26	30 88	
Gaurav Bansal	UW-Green Bay	27	30 88	
Ryan Currier	UW-Green Bay	28	2 4	
Georjeanna				

Faculty Adviser	Institution	Poster	Legislative Distric Senate/Assembly
Wilson-Doenges	UW-Green Bay	29	30 88
Benjamin Zuckerberg	UW-Madison	34	26 77
Rupa Sridharan	UW-Madison	35	26 27
Nasia Safdar	UW-Madison	36	26 78
Susan Paskewitz	UW-Madison	37	26 77
Gerald Kulcinski	UW-Madison	38	26 78
Cora Lee Kluge	UW-Madison	39	26 77
Wail Hassan	UW-Milwaukee	40	28 84
Russell Cuhel	UW-Milwaukee	42	7 19
Carmen Aguilar	UW-Milwaukee	42	7 19
James Moyer	UW-Milwaukee	43	7 19
Ben Church	UW-Milwaukee	45	22 66
Kevin Crawford	UW-Oshkosh	46	18 53
Sabrina Mueller-Spitz	UW-Oshkosh	46	18 54
Marianne Johnson	UW-Oshkosh	47	18 54
Robert Sipes	UW-Oshkosh	48	19 56
Victoria Beck	UW-Oshkosh	49	18 54
Traci Lee	UW-Parkside	50	22 66
Jessica Orlofske	UW-Parkside	51	21 62
Derek Riley	UW-Parkside	52	21 63
Xun (George) Wang	UW-Parkside	53	22 64
Michael Gurtman	UW-Parkside	54	22 64
Melissa Gregg	UW-Parkside	55	21 62
Brian Barry	UW-Platteville	56	17 49
Raja Annamalai	UW-Platteville	57	26 76
Muthusubramanian			
Venkateshwaran	UW-Platteville	57, 60	17 49
John Peterson	UW-Platteville	58	17 49
Ryan Haasl	UW-Platteville	61	17 49
Hal Evensen	UW-Platteville	62	27 80
Cheng-chen Huang	UW-River Falls	63	10 30
Fred Bonilla	UW-River Falls	64	10 30
Joe Shakal	UW-River Falls	65	10 30
loel Peterson	UW-River Falls	65	10 30
David Zlesak	UW-River Falls	66	10 30
Joseph O'Kroy	UW-River Falls	67	10 30
David Trechter	UW-River Falls	68	10 30
Terry Ferriss	UW-River Falls	68	10 30
Travis Tubre	UW-River Falls	68	10 30

Faculty Adviser	Institution	Poster	Legislative District Senate/Assembly
Nathan Bowling	UW-Stevens Point	69	24 71
Sarah Jane Alger	UW-Stevens Point	70	14 41
Holly Schmies	UW-Stevens Point	71, 72	24 71
Beth Kinslow	UW-Stevens Point	71, 72	24 71
Valerie Barske	UW-Stevens Point	73	24 70
Jason D'Acchioli	UW-Stevens Point	74	24 71
Nels Paulson	UW-Stout	77	10 29
Tina Lee	UW-Stout	78	10 29
Edward Burkett	UW-Superior	81	25 73
Richard Stewart	UW-Superior	82	25 73
Zamira Simkins	UW-Superior	83	25 73
Maria Stalzer			
Wyant Cuzzo	UW-Superior	84	25 73
Lorena Rios Mendoza	UW-Superior	85	25 73
Diek Carlson	UW-Superior	86	25 73
Cheng Thao	UW-Whitewater	87	15 43
Lynn Gilbertson	UW-Whitewater	88	15 45
Greg Jeffers	UW-Whitewater	89	33 97
Christina Jones	UW-Whitewater	90	11 33
James Levy	UW-Whitewater	91	15 43
Kirsten Crossgrove	UW-Whitewater	92	11 33

STUDENT PRESENTERS BY INSTITUTION

Student Name, Hometown Poster Number and Poster Title

UW-BARABOO/SAUK COUNTY

Rachel Lizzadro-Mcpherson, Baraboo WI

Asking the Tough Questions: How to Create an Effective Survey

Malachi Persche, Baraboo WI

2 Economic Analysis of Winter Greenhouse Production in Baraboo

John William Washa, Reedsburg WI

Hydraulic Fracturing and Its Possible Effects on the Environment

Corbach Toolis, Baraboo WI

Peeling Back Layers of Truth: A Fresh Exploration of "The Yellow Wallpaper" by Charlotte Perkins Gilman

Erika Traver, Baraboo WI

Peeling Back Layers of Truth: A Fresh Exploration of "The Yellow Wallpaper" by Charlotte Perkins Gilman

UW-FOND DU LAC

Melanie Gruenstern, Fond du Lac WI

Mogollon Ceramic Analysis: From Pots to People

Drew Hraban, Waupun WI

Mogollon Ceramic Analysis: From Pots to People

Emily Belling, Fond du Lac WI

6 Allelopathic Potential of Garlic Mustard

UW-FOX VALLEY

Kathryn Lenz, Potter WI

Monitoring Carbon Dioxide and Methane Levels Above Active Landfill, Retired Landfill, and Forest Control Sites in the Fox Cities Area of Wisconsin with a Tethered Aerostat to Determine Remediation Effectiveness

Jeshanah Zolkowski, Neenah WI

Monitoring Carbon Dioxide and Methane Levels Above Active Landfill, Retired Landfill, and Forest Control Sites in the Fox Cities Area of Wisconsin with a Tethered Aerostat to Determine Remediation Effectiveness

Jesse Banick, Kaukauna WI

Monitoring Carbon Dioxide and Methane Levels Above Active Landfill, Retired Landfill, and Forest Control Sites in the Fox Cities Area of Wisconsin with a Tethered Aerostat to Determine Remediation Effectiveness

Jonathan Sanders, Green Bay WI

Monitoring Carbon Dioxide and Methane Levels Above Active Landfill, Retired Landfill, and Forest Control Sites in the Fox Cities Area of Wisconsin with a Tethered Aerostat to Determine Remediation Effectiveness

UW-MANITOWOC

Aubri Urbanek, Two Rivers WI

Impact of Rainfall on Water Quality of the Tributary Creeks of Lake Michigan in Manitowoc, Wisconsin

Paige Arneson, Newton WI

Impact of Rainfall on Water Quality of the Tributary Creeks of Lake Michigan in Manitowoc, Wisconsin

Chelsy Coutermarsh, Two Rivers WI

Impact of Rainfall on Water Quality of the Tributary Creeks of Lake Michigan in Manitowoc, Wisconsin

UW-MARSHFIELD/WOOD COUNTY

Ciera Griepentrog, Marshfield WI

Following Nuclear Fallout: The Ongoing Effects of Fukushima Nuclear

Rvan Kizer, Marshfield WI

10 Water Pollution and Regulation in Wisconsin

UW-RICHLAND

Ashley Thompson, Wonewoc WI

11 Examining Coastal Beach Sands in North America

UW-SHEBOYGAN

Ryan Kisiolek, Sheboygan WI

12 Evolution of a Trophic Polymorphism Between Blue and Gold Walleye (Sander vitreus) in Ontario, Canada, by Gut Content and Stable Isotope Analysis

Jason Karls, Sheboygan WI

12 Evolution of a Trophic Polymorphism Between Blue and Gold Walleye (Sander vitreus) in Ontario, Canada, by Gut Content and Stable Isotope Analysis

Amanda Drews, Sheboygan WI

13 Growth Performance of Four Varieties of Sweet Basil Grown in a Greenhouse with Both Aquaponics Effluent and Soil

Student Name, Hometown Poster Number and Poster Title

UW-WASHINGTON COUNTY

Ross Kluczinske, Meguon WI

14 Nonconventional Hydrogen Bonding: Natural Bond Orbital Study

Patrick Leonard, Saukville WI

14 Nonconventional Hydrogen Bonding: Natural Bond Orbital Study

Morgan Vanderschaegen, Hartford WI

14 Nonconventional Hydrogen Bonding: Natural Bond Orbital Study

Tyler Ross, Germantown WI

14 Nonconventional Hydrogen Bonding: Natural Bond Orbital Study

UW-WAUKESHA

Mariah Ehmcke, South Milwaukee WI

15 From Spring City to Dry City

UW-EAU CLAIRE

Rory Smuhl, Eau Claire WI

16 Are Energy Use Intensity and LEED Certification Connected?

Adam Wiest, Green Bay WI

17 Establishing an Environmental Baseline for Surface and Groundwater Chemistry in Western Wisconsin

Samantha Bartnik, Cedarburg WI

17 Establishing an Environmental Baseline for Surface and Groundwater Chemistry in Western Wisconsin

Joseph Hunt, Woodbury MN

18 Evidence from the USDA Fresh Fruit and Vegetable Program in Washington State Elementary Schools and Implications for Wisconsin Policy

Lorena Garceau, Elburn IL

18 Evidence from the USDA Fresh Fruit and Vegetable Program in Washington State Elementary Schools and Implications for Wisconsin Policy

Kjirstin Martell, Chippewa Falls WI

18 Evidence from the USDA Fresh Fruit and Vegetable Program in Washington State Elementary Schools and Implications for Wisconsin Policy

Josh Bodnar, Nashotah WI

18 Evidence from the USDA Fresh Fruit and Vegetable Program in Washington State Elementary Schools and Implications for Wisconsin Policy

Carissa Baier, Eau Claire WI

19 Exploring Snapchat as a Dynamic Capture Tool for Social Exchange in Persons with Aphasia

Elizabeth Stubbs, Eau Claire WI

20 Thermoresponsive Property Investigation of Smart Diblock Copolymers

Madeline Tautges, Eau Claire WI

21 Walloon in Northeastern Wisconsin

Bobbi Freagon, Chippewa Falls WI

21 Walloon in Northeastern Wisconsin

UW-GREEN BAY

Cody Becker, Sheboygan WI

22 Aerial Surveying and Vegetation Mapping Using Drone Technology at the Point au Sable Nature Reserve

Kortney Krajewski, Little Suamico WI

23 Cultural Competency: Before and After Studying Abroad

Noel Craig, Green Bay WI

24 Determination of Water Extractable Phosphorus for a Northeast Wisconsin Soil Quality Index

Jeremiah Shrovnal, Green Bay WI

25 Growth Rate Analysis of Coastal Wetland and Near Shore Great Lakes Fish **Using Otolith Dating**

Matthew Nichols, Wausau WI

26 Manure Lagoon Additive Performance Evaluation

Kyle Marshall, New Franken WI

27 Moral Beliefs and Organizational Information Security Policy Compliance: The Role of Gender

Kayla Hodorff, Malone WI

27 Moral Beliefs and Organizational Information Security Policy Compliance: The Role of Gender

Zachary Ashauer, Hortonville WI

28 The Lashly Mountains of Southern Victorialand, Antarctica: Investigating a Possible Ancient Volcano

Kelli Hutchinson, Trevor WI

29 Timing and the Influence of Visualization on Sports Performance

Student Name, Hometown Poster Number and Poster Title

UW-LA CROSSE

Johnny Glaunert, Onalaska WI

30 Exposing the Oppressor Within: Heteronormative Language Attitudes Among Gay Men in Buenos Aires

Lauren Bradley, Janesville WI

32 The Direct Effect of Cycling on Neuromuscular Control of Running in Triathletes

Emma Neuberger, Appleton WI

32 The Direct Effect of Cycling on Neuromuscular Control of Running in Triathletes

Emily Durham, La Crosse WI

32 The Direct Effect of Cycling on Neuromuscular Control of Running in **Triathletes**

Patrick Griffith, La Crosse WI

32 The Direct Effect of Cycling on Neuromuscular Control of Running in Triathletes

Lisa Roemhildt, Janesville MN

33 Understanding Women's Representation in Chile

UW-MADISON

Colleen Miller, Madison WI

34 Allen's Rule and the Impact of Warming Winters on Northern Cardinal Morphology

Cesar Martinez, Appleton WI

35 Analysis of the Epigenome in Pluripotency

Caroline Zellmer, Madison WI

36 Efficacy of Two-Hand Hygiene Methods for Clostridium Difficile Spore Removal

Marjorie Kersten, Waunakee WI

37 Expanding Entomophagy: Investigating Potential Barriers to Mealworm and Cricket Consumption in Zambia and the United States

Alexander Strange, Sussex WI

38 Helium Ion Energy Measurement for a Solar Wind Implantation Device

Calla Buttke, Wausau WI

39 Taking Center Stage: Bringing Light to the Golden Era of the Milwaukee German Theater

UW-MILWAUKEE

Ndeve Drame, Milwaukee WI

40 Comparative Analysis of CD8+ T Cells in Young and Aged Rhesus Macaques

Ian Clavel, Milwaukee WI

41 Immune Suppressor Cell Subsets Do Not Colocalize Within Breast Cancer

Michelle Soderling, Milwaukee WI

42 What's Feeding Your Fish? Phytoplantkton in Lake Michigan

Brett Fulleylove-Krause, Chilton WI

43 Quantifying Changes in Medial Prefrontal Cortex IEG Expression as a Function of Aging-related Cognitive Decline

Rosetta Washington, Milwaukee WI

44 Striving to Create Healthier Birth Outcomes through Innovative Partnerships and Sisterhood: Early Findings from the Birthing Project Milwaukee

Nisrit Pandey, Milwaukee WI

45 Wettability of Separator Sheets in Advanced Lead Acid Batteries

UW-OSHKOSH

Alyssa Valentyne, Kimberly WI

46 Bacterial Degradation of Low Molecular Weight Polycyclic Aromatic Hydrocarbons; Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene by Mycobacterium

Isaac Johnson, Neenah WI

47 Grand Master Gammon - A Backgammon Risk/Reward Calculator

Hailey Parker, Papillion NE

48 The Relationship Between High School Athletes' Intention to Report and Athletes' and Parents' Concussion Knowledge

Mackenzie Hagan, Oshkosh WI

48 The Relationship Between High School Athletes' Intention to Report and Athletes' and Parents' Concussion Knowledge

Michaela Otto, Appleton WI

49 Women in Law Enforcement: An Examination of Female Interest in Policing

Student Name, Hometown Poster Number and Poster Title

UW-PARKSIDE

Rebekah Mokry, Caledonia WI

50 Assessing Met31 and Met32 Protein Levels Upon Sulfur Limitation in MET31 and MET32 Promoter Replacement Strains

Liv Gripko, Kenosha WI

51 Ecological Restoration Progression of a Coastal Wetland Ecosystem (Samuel Myers Park, Racine, WI, USA) Based on Aquatic Invertebrate Biodiversity

Kyle Zawacki, Racine WI

52 Ready Badger Mobile Application

Molly Lake, Waterford WI

53 Socioeconomic Status and Food Access in Racine County

Victoria Ferstein, Vernon Hills IL

54 Universalism in the Context of the Five Factor Model of Personality

Michele Gloede, Racine WI

55 Visual Memory is Superior to Auditory Memory Despite Extensive Auditory **Training**

UW-PLATTEVILLE

Jessica Bruggen, Lake Villa IL

56 Catalyst Design Towards Oxidative Addition of Stable Bonds

Keyton Feller, Preston IA

56 Catalyst Design Towards Oxidative Addition of Stable Bonds

Sara Rubeck, Rockford IL

57 Characterizing the Role of Volatile Organic Compounds in Plant-Microbe *Symbioses*

Kendell Welch, Platteville WI

57 Characterizing the Role of Volatile Organic Compounds in Plant-Microbe *Symbioses*

Katherine Macco-Webster, De Pere WI

58 Comparing Survey Techniques for Wisconsin's Endangered Cricket Frog

Allison Wells, Moline IL

58 Comparing Survey Techniques for Wisconsin's Endangered Cricket Frog

Samantha Tomczewski, Platteville WI

58 Comparing Survey Techniques for Wisconsin's Endangered Cricket Frog

Erin Geddes, Platteville WI

59 Effect of Pathway-Interconnectors in SEB-Induced Apoptosis Related Events in Human PBMCs

Kendell Welch, Platteville WI

60 Genetic Suppressor Screening to Identify New Regulators of Symbiotic Genes in the Model Legume Medicago truncatula

Leanna Oltz, Harvard IL

60 Genetic Suppressor Screening to Identify New Regulators of Symbiotic Genes in the Model Legume Medicago truncatula

Emily Hefty, Mount Horeb WI

60 Genetic Suppressor Screening to Identify New Regulators of Symbiotic Genes in the Model Legume Medicago truncatula

Briseida Oceguera Perez, Rockford IL

61 Population Distribution and Genetics of the Invasive Species Japanese Hops

Kellin Myers, Sun Prairie WI

62 Population Distribution and Genetics of the Invasive Species Japanese Hops

Reese Hussey, McFarland WI

61 Population Distribution and Genetics of the Invasive Species Japanese Hops

Charles Nelson, Saint Paul MN

62 The Construction, Sensing, and Analysis of Carbon Nanotube Transistors

Lynsey Hanley, Spooner WI

62 The Construction, Sensing, and Analysis of Carbon Nanotube Transistors

Michael Viola, Crystal Lake IL

62 The Construction, Sensing, and Analysis of Carbon Nanotube Transistors

UW-RIVER FALLS

Noah Stueven, Sheboygan WI

63 A11, a Potential Drug for Melanoma Cancer

Rebbekah Hite, River Falls WI

64 Local Collaboration Project on Nitrogen Fixing Bacterium Inoculums for Potential Use in Seed Treatment for Crops

Mitch Breuer, Goodhue MN

65 Small Grains Winnower

Siri Doyle, Hayward WI

65 Small Grains Winnower

Kaitlynn Graven, River Falls WI

66 Testing of Target Antibiotics Against Classified Endophytic Contamination in Main Culture Lines in the Plant Tissue Growth Room at UW-River Falls

Matthew Pechacek, Prescott WI

67 The Effect of Foot Inclination Angle on Lower Extremity Kinematics and **Ground Reaction Forces During Running**

Alison Miotke, South Saint Paul MN

68 The Impact of a Living Greenwall on Student Attitudes, Moods, and Academic Performance

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

UW-STEVENS POINT

Zak Driscoll, Oxford WI

69 Design of Modern Electronics Through Organic Chemistry

Victoria Nellessen, Bartlett IL

70 Do Pair Bond and Nesting Behaviors Indicate Reproductive Success in a Captive Zebra Finch Colony?

Nick Lemke, Stevens Point WI

71 Do You Need More Than Water During Your Workout? An Examination of Intra-workout Carbohydrate Consumption and Exercise Performance

Samuel Joswiak, Weston WI

71 Do You Need More Than Water During Your Workout? An Examination of Intra-workout Carbohydrate Consumption and Exercise Performance

Ramona Marquardt, Green Bay WI

71 Do You Need More Than Water During Your Workout? An Examination of Intra-workout Carbohydrate Consumption and Exercise Performance

Sarah Pettit, Racine WI

71 Do You Need More Than Water During Your Workout? An Examination of Intra-workout Carbohydrate Consumption and Exercise Performance

Jamie Destache, Sussex WI

- 71 Do You Need More Than Water During Your Workout? An Examination of Intra-workout Carbohydrate Consumption and Exercise Performance
- 72 Does Sport Specialization Affect Lower Extremity Biomechanics and Injury

Chelsie Harrison, Wonewoc WI

72 Does Sport Specialization Affect Lower Extremity Biomechanics and Injury Risk?

Sarah Vitale, Stevens Point WI

72 Does Sport Specialization Affect Lower Extremity Biomechanics and Injury Risk?

Madalyn Sawdey, Medford WI

72 Does Sport Specialization Affect Lower Extremity Biomechanics and Injury

Valerie Mielke, Green Bay WI

72 Does Sport Specialization Affect Lower Extremity Biomechanics and Injury Risk?

Michael Marichal, Appleton WI

73 Globalization and Japan: Gender, Nationalism, and New Media

Alan Bustamante, Stevens Point WI

73 Globalization and Japan: Gender, Nationalism, and New Media

Neil Foegen, Appleton WI

74 Oxidation States "Naturally": A Natural Bond Orbital Method for Determining Transition Metal Oxidation States

UW-STOUT

Morgan Wolf, New Berlin WI

75 Assessing Diversity Competence in Resident Advisors

Jeffrey Lynch, Chippewa Falls WI

76 A Younger Vision for Chippewa Falls, Wisconsin

Joshua Herron, Marshfield WI

77 Getting Farmers Connected: BMPs and Social Networks

Megan Verhagen, Appleton WI

78 Hegemonic Masculinity as a Predictor of Body Satisfaction

Justin Olson, Arcadia WI

79 Promoting Egg Donor Compensation to Enhance Stem Cell Research and Human Health

Allison Roush, Phillips WI

80 Well for Wellbeing

UW-SUPERIOR

Paige Arneson, Spring Valley MN

81 Use of Super Resolution Microscopy to Characterize the Two Component Measles Virus Fusion Complex

Gavin Johnson, Cloquet MN

82 An Analysis of Status of Undergraduate Transportation Management Education in the United States

Brian Honness, Superior WI

83 Economic Impact of Tower Avenue Closing and Reconstruction

Randy Bender, Canyon MN

84 From Japan to Nepal: What Constitutional Case Studies Tell Us

Kanishka Wijesekera, Superior WI

85 Impact of Microplastic on Daphnia and Algae

Donald Simmons, Ashland WI

86 Survey of Ashland and Bayfield County Residents on the Potential Economic and Environmental Impact of the Proposed Concentrated Animal Feeding Operation in Bayfield County, Wisconsin

UW-WHITEWATER

Nyia Lor, Wausau WI

87 Interactive Web-based Hmong Language Teaching Tool: Hmong Language

Liza Thies, Sussex WI

88 Noise Exposure of Amusement Ride Operators

Shyterria Sparkman, Milwaukee WI

89 The Social Context of Serial Killing in the United States: 1990-2012

Jessica Maiers, Deforest WI

90 Supportive Communication Across Social Classes: The Fort Atkinson Food Pantry

Aaron Broadwater, Milwaukee WI

91 The Factors Affecting Success Rates of Black Owned Businesses in Milwaukee, Wisconsin

Austin Chriske, Wind Lake WI

92 Using Lifespan Assays in Caenorhabditis elegans as a Model System to Study **Nutritional Supplements**

STUDENT PRESENTERS BY WISCONSIN LEGISLATIVE DISTRICT

District Senate/Assembly		Student Presenter	Institution	Poste	
1	2	Aubri Urbanek	UW-Manitowoc	8	
1	2	Chelsy Coutermarsh	UW-Manitowoc	8	
1	3	Alyssa Valentyne	UW-Oshkosh	46	
1	3	Megan Verhagen	UW-Stout	78	
2	5	Jesse Banick	UW-Fox Valley	7	
2	5	Jeremiah Shrovnal	UW-Green Bay	25	
5	15	Rosetta Washington	UW-Milwaukee	44	
6	17	Aaron Broadwater	UW-Whitewater	91	
7	21	Mariah Ehmcke	UW-Waukesha	15	
7	19	Ndeye Drame	UW-Milwaukee	40	
7	19	lan Clavel	UW-Milwaukee	41	
7	19	Nisrit Pandey	UW-Milwaukee	45	
7	19	Michelle Soderling	UW-Milwaukee	42	
8	23	Ross Kluczinske	UW-Washington County	14	
8	24	Tyler Ross	UW-Washington County	14	
8	22	Shyterria Sparkman	UW-Whitewater	89	
9	25	Kathryn Lenz	UW-Fox Valley	7	
9	25	Paige Arneson	UW-Manitowoc	8	
9	26	Ryan Kisiolek	UW-Sheboygan	12	
9	26	Jason Karls	UW-Sheboygan	12	
9	26	Amanda Drews	UW-Sheboygan	13	
9	27	Noah Stueven	UW-River Falls	63	
10	30	Rebbekah Hite	UW-River Falls	64	
10	30	Mitch Breuer	UW-River Falls	65	
10	30	Kaitlynn Graven	UW-River Falls	66	
10	30	Alison Miotke	UW-River Falls	68	
10	29	Joshua Herron	UW-Stout	77	
10	29	Allison Roush	UW-Stout	80	
13	37	Jessica Maiers	UW-Whitewater	90	
10	30	Morgan Wolf	UW-Stout	75	
14	41	Zak Driscoll	UW-Stevens Point	69	
15	43	Lauren Bradley	UW-La Crosse	32	
16	46	Kellin Myers	UW-Platteville	61	
16	47	Reese Hussey	UW-Platteville	61	
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17	50	Ashley Thompson	UW-Richland	11	
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