

Posters in the Rotunda

A Celebration of
Undergraduate
Student Research

Capitol Rotunda
Madison, Wisconsin
March 5, 2008



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10:00 a.m.–3:00 p.m.

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www.wisconsin.edu/posters

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SCHEDULE

8:30–10:00 a.m. Legislative Symposium, 412 East

The Value of Undergraduate Research: National, State and Local Perspectives Sponsored by Joint Legislative Council Co-Chairmen, Sen. Fred Risser (D-Madison) and Rep. Steve Wieckert (R-Appleton).

Featuring:

Nancy Hensel, *Executive Director*, Council on Undergraduate Research

10:00 a.m.–3:00 p.m. Posters Display, Capitol Rotunda

11:30 a.m.–12:00 p.m. Posters in the Rotunda, North Hearing Room

Speakers:

Kevin P. Reilly, *President*, University of Wisconsin System

James Doyle, *Governor* (invited)

Nancy Hensel, *Executive Director*, Council on Undergraduate Research

Jarrold Feight, *Student*, University of Wisconsin-Stout

3:00–5:00 p.m. Legislative Reception, North Hearing Room

Speakers:

Mark J. Bradley, *President*, University of Wisconsin System Board of Regents

Gwynne DeBoer, *Student*, University of Wisconsin-Whitewater

Thank you to our Legislative hosts:

Senator Kathleen Vinehout (D-Alma)

Representative Kitty Rhoades (R-Hudson)



FROM THE PRESIDENT

Dear Education Partner:

The University of Wisconsin System is proud to salute the UW's newest generation of innovative thinkers at "Posters in the Rotunda: A Celebration of Undergraduate Research." At each of the UW System's 26 campuses, undergraduate researchers are advancing the tradition of the Wisconsin Idea as they join with faculty mentors to discover and share knowledge.

By engaging in undergraduate research, students directly connect academic theory to real-world application. These young scholars gain a world-class educational experience, while providing valuable assistance to the UW faculty members who serve as student mentors. Together, these student-faculty research teams strengthen UW expertise in a wide variety of fields.

Ideas generated through undergraduate research are already leading to solutions for Wisconsin's future. Through their study, UW student researchers are proposing products, services, and policies that can improve health care, enhance education, advance the arts and sciences, and preserve our environment. Further, all of Wisconsin will benefit as these developing student researchers become skilled UW graduates, ready to make a positive difference in Wisconsin's knowledge-economy workforce.

The annual Posters in the Rotunda event is the result of many collaborations across the state. We extend our appreciation to the partners who made this student showcase possible: the National Office of Undergraduate Research, the Wisconsin Legislative Council, and the Wisconsin Alumni Association. Special thanks and appreciation to Wisconsin's elected representatives for their participation and support.

Many congratulations to all those involved in the growing opportunities for undergraduate research across the UW System — faculty mentors, proud families, community supporters, and especially, our talented students. Their study is a unique component of the UW System's robust research enterprise, and supporting their education is key to Wisconsin's future success.

Sincerely,

A handwritten signature in black ink that reads "Kevin P. Reilly". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Kevin P. Reilly
President
University of Wisconsin System

BOARD OF REGENTS

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Chancellor Julius Erlenbach
University of Wisconsin-Superior
Interim Chancellor Richard Telfer
University of Wisconsin-Whitewater

STUDENT PRESENTERS: by UW Institution (*Faculty Advisor)

Poster/Name	Institution	Hometown
University of Wisconsin Colleges:		
1 *Teresa Gonya	UW-Fox Valley	Menasha
1 John Wood	UW-Fox Valley	Appleton
2 *Martin Rudd	UW-Fox Valley	Menasha
2 Sarah Seidel	UW-Fox Valley	Appleton
3 Kevin Kearns	UW-Fox Valley	Neenah
3 *Dubear Kroening	UW-Fox Valley	Menasha
4 *Martin Rudd	UW-Fox Valley	Menasha
4 Bryan Carlson	UW-Fox Valley	De Pere
4 Scott Kersten	UW-Fox Valley	Appleton
5 Rebecca Ertel	UW-Manitowoc	Kiel
5 *Richard Hein	UW-Manitowoc	Manitowoc
5 Jeff Schweke	UW-Manitowoc	Two Rivers
5 Kelly VanderBloomen	UW-Manitowoc	Manitowoc
5 Nicole Wanek	UW-Manitowoc	Two Rivers
7 *Mohamed Ayoub	UW-Washington County	West Bend
7 Joe Holquist	UW-Washington County	West Bend
7 Mark Petri	UW-Washington County	West Bend
7 Mel Toeller	UW-Washington County	Saukville
8 Erin Hess	UW-Waukesha	Waukesha
8 Brandon Krawczyk	UW-Waukesha	Waukesha
8 Shannon Melcher	UW-Waukesha	Waukesha
8 Laura Ziegler	UW-Waukesha	Waukesha
8 *Paul Zillgitt	UW-Waukesha	Waukesha
9 Cortney Bongard	UW-Eau Claire	Waconia
9 Heidel Brady	UW-Eau Claire	Custer
9 Angela Heacock	UW-Eau Claire	Chaska
9 Megan Pederson	UW-Eau Claire	Amherst
9 *Dr. Kristine Retherford	UW-Eau Claire	Eau Claire
10 *Dr. April Bleske-Rechek	UW-Eau Claire	Eau Claire
10 Michael Ojibway	UW-Eau Claire	Chippewa Falls
11 Mitch Phillipson	UW-Eau Claire	Chippewa Falls
11 Tanya Smeltzer	UW-Eau Claire	Fall Creek
11 *Dr. Simei Tong	UW-Eau Claire	Eau Claire
11 *Dr. Michael Wick	UW-Eau Claire	Eau Claire
12 *Dr. Julie Anderson	UW-Eau Claire	Eau Claire

STUDENT PRESENTERS: by UW Institution (*Faculty Advisor)

Poster/Name	Institution	Hometown
12 Matt Brewer	UW-Eau Claire	Clintonville
12 Nathan Butler	UW-Eau Claire	Farwell
12 *Dr. Darwin Wittrock	UW-Eau Claire	Eau Claire
13 *Dr. Karen O'Day	UW-Eau Claire	Eau Claire
13 Teri Sanders	UW-Eau Claire	Eau Claire
14 *Sarah Detweiler	UW-Green Bay	Green Bay
14 Jenna Neumann	UW-Green Bay	Merrill
15 Megan Harvey	UW-Green Bay	Amherst
15 Crystal Osman	UW-Green Bay	Luck
15 *Amy Wolf	UW-Green Bay	Green Bay
16 *Peter Breznay	UW-Green Bay	Green Bay
16 Yuri Burrows	UW-Green Bay	Green Bay
17 *Terri Johnson	UW-Green Bay	Green Bay
17 Ryan Mach	UW-Green Bay	Green Bay
18 *Terri Johnson	UW-Green Bay	Green Bay
18 Bryan Hulbert	UW-Green Bay	Appleton
18 William Johnson	UW-Green Bay	De Pere
18 Trista Seubert	UW-Green Bay	Green Bay
19 *Patricia Ardivino	UW-La Crosse	La Crosse
19 Elizabeth Kaufman	UW-La Crosse	Stevens Point
20 *Betsy Morgan	UW-La Crosse	Onalaska
20 Katherine Schaaf	UW-La Crosse	Brooklyn Park
20 *Kimberly Vogt	UW-La Crosse	Onalaska
21 Rebecca O'Brien	UW-La Crosse	Eastman
21 *Tom Volk	UW-La Crosse	La Crosse
22 Amber Goldbeck	UW-La Crosse	Plymouth
22 *Eric Strauss	UW-La Crosse	Holmen
23 *Joel Elgin	UW-La Crosse	La Crosse
23 Nelson Johnson	UW-La Crosse	La Crosse
24 Arin Ellingson	UW-Madison	Osceola
24 Jonathan Sass	UW-Madison	Greenfield
24 Ben Schoepke	UW-Madison	Menomonee Falls
24 David Schurter	UW-Madison	Champaign
24 *Mitchell Tyler	UW-Madison	Madison
25 Vanessa Kung	UW-Madison	Madison
25 *Ron Raines	UW-Madison	Madison
26 *Que Lan	UW-Madison	Middleton

STUDENT PRESENTERS: by UW Institution (*Faculty Advisor)

Poster/Name	Institution	Hometown	
26	Roshni Patel	UW-Madison	Beloit
27	*Mustafa Baskaya	UW-Madison	Madison
27	Casmir Turnquist	UW-Madison	Wayzata
28	*Julien Clinton Sprott	UW-Madison	Madison
28	Adam Maus	UW-Madison	Slinger
30	*Nadejda Kaltcheva	UW-Oshkosh	Oshkosh
30	Micah Scorcio	UW-Oshkosh	Fond Du Lac
31	*Gregory Adler	UW-Oshkosh	Neenah
31	David Flagel	UW-Oshkosh	Markesan
32	*Lisa Dorn	UW-Oshkosh	Oshkosh
32	Matt Rubin	UW-Oshkosh	Oshkosh
33	*Nadejda Kaltcheva	UW-Oshkosh	Oshkosh
33	Anthony Kuchera	UW-Oshkosh	Racine
34	*Greg Kleinheinz	UW-Oshkosh	Winneconne
34	Amy Vandenheuvel	UW-Oshkosh	Appleton
35	*Marlann Marinho	UW-Platteville	Platteville
35	Ryan Schele	UW-Platteville	Beloit
35	Ben Tredinnick	UW-Platteville	De Forest
36	*Dr. Hisham Abdel-Aal	UW-Platteville	Platteville
36	Tyler Bechel	UW-Platteville	Elmwood
36	Eric Doro	UW-Platteville	Princeton
36	Andrew Melby	UW-Platteville	Phillips
37	*Dr. Hisham Abdel-Aal	UW-Platteville	Platteville
37	Anna Markgren	UW-Platteville	Rice Lake
38	Daniel Hoesly	UW-Platteville	Monroe
38	Paula Olig	UW-Platteville	Sheboygan
38	*Dr. Wayne Weber	UW-Platteville	Platteville
39	Jerrod Parker	UW-Platteville	Dubuque
39	*Dr. Wayne Weber	UW-Platteville	Platteville
40	Jim Bruhn	UW-Platteville	Waterloo
40	Alex Stark	UW-Platteville	Prairie Du Chien
40	Ashleigh Waltz	UW-Platteville	Fennimore
40	*Dr. Wayne Weber	UW-Platteville	Platteville
41	Travis Cordie	UW-River Falls	Woodbury
41	*Tim Lyden	UW-River Falls	Spring Valley
42	*Karl Peterson	UW-River Falls	River Falls
43	David Markle	UW-River Falls	River Falls

STUDENT PRESENTERS: by UW Institution (*Faculty Advisor)

Poster/Name	Institution	Hometown	
43	*Susan Wiegrefe	UW-River Falls	River Falls
44	Amy Robak	UW-River Falls	Foley
44	*Tim Lyden	UW-River Falls	Spring Valley
45	Rebecca Cote	UW-River Falls	Rhineland
45	*Tim Lyden	UW-River Falls	Spring Valley
46	*Karl Peterson	UW-River Falls	River Falls
47	*Eric Anderson	UW-Stevens Point	Stevens Point
47	Joseph Welch	UW-Stevens Point	Superior
48	Daniel Dissing	UW-Stevens Point	Stevens Point
48	*Michael Zach	UW-Stevens Point	Stevens Point
49	Luke Fara	UW-Stevens Point	Wisconsin Rapids
49	*Kevin Russell	UW-Stevens Point	Stevens Point
49	Joe Schultz	UW-Stevens Point	Saint Paul
50	Katie Becker	UW-Stevens Point	Green Bay
50	Christina Burek	UW-Stevens Point	Wausau
50	*Jeana Magyar-Moe	UW-Stevens Point	Stevens Point
50	Amber McDougal	UW-Stevens Point	Bryant
50	Autumn McKeel	UW-Stevens Point	Boyd
51	Paula Buntinl	UW-Stevens Point	Wausau
51	*Nisha Fernando	UW-Stevens Point	Stevens Point
52	Jeff Grinager	UW-Stout	Menomonie
52	*Dr. Jo Hopp	UW-Stout	Menomonie
53	*Dr. Desiree Budd	UW-Stout	Menomonie
53	Grant Michelsen-Pierce	UW-Stout	Appleton
54	*Dr. Kitrina Carlson	UW-Stout	Menomonie
54	Christina Luke	UW-Stout	Shoreview
55	*Dr. Krista James	UW-Stout	Menomonie
55	Jessica Van Der Werff	UW-Stout	Menomonie
56	Jarrod Feight	UW-Stout	Eau Claire
56	*Dr. Forrest Schultz	UW-Stout	Menomonie
57	Kevin Anderson	UW-Superior	Superior
57	*Dr. Edward Burkett	UW-Superior	Superior
57	Joanne LaFont	UW-Superior	Duluth
57	*Dr. Rhonda Robinson	UW-Superior	Duluth
57	Sara Wroblewski	UW-Superior	Superior
58	Mackenzie Sullivan	UW-Superior	Superior
58	*Dr. Edward Burkett	UW-Superior	Superior

STUDENT PRESENTERS: by UW Institution (*Faculty Advisor)

Poster/Name	Institution	Hometown
59 *Christopher Kemnitz	UW-Superior	Duluth
59 Robin Rantala	UW-Superior	Duluth
59 Crystal Winters	UW-Superior	Duluth
60 Eric Johnson	UW-Superior	Superior
60 Daniel Levings	UW-Superior	Superior
60 *Dr. Edward Burkett	UW-Superior	Superior
61 Gwynn DeBoer	UW-Whitewater	Franklin
61 *Bob Kuzoff	UW-Whitewater	Whitewater
62 *Peter Jacobs	UW-Whitewater	Whitewater
62 Carly Polk	UW-Whitewater	Whitewater
63 Jessica Solis	UW-Whitewater	Mukwonago
64 *Seth Meisel	UW-Whitewater	Madison
64 John Pettey	UW-Whitewater	Janesville
65 Phil Castillo	UW-Whitewater	Whitewater
65 *Linda Reid	UW-Whitewater	Whitewater
66 *Bob Benjamin	UW-Whitewater	Madison
66 Eric Phillips	UW-Whitewater	Greendale
67 *Catherine Chan	UW-Whitewater	Stoughton
67 Josh Roe	UW-Whitewater	Whitewater
68 *Harvey Bootsma	UW-Milwaukee	Milwaukee
68 John Schafer	UW-Milwaukee	Milwaukee
69 Jessica VandeWalle	UW-Milwaukee	Milwaukee
69 *Sandra McLellan	UW-Milwaukee	Milwaukee
70 Caitlin Carlson	UW-Milwaukee	Madison
70 *Sandra McLellan	UW-Milwaukee	Milwaukee
71 Amanda Maslowski	UW-Milwaukee	St. Francis
71 *Dr. Patricia Richards	UW-Milwaukee	Milwaukee
72 Kristin McElligott	UW-Milwaukee	West Bend
73 Blanca Ramos	UW-Parkside	Racine
73 Alyssa Hein	UW-Parkside	Kenosha
74 Lori Themmes	UW-Parkside	Kansasville
75 Samantha Wasem	UW-Parkside	Pleasant Prairie
76 Adrian Koski	UW-Parkside	Kenosha

STUDENT PRESENTERS: by Wisconsin Legislative district

District	Senate/House	Student Presenter	Institution	Poster	
	1	2	Jeff Schweke	UW-Manitowoc	5
	1	2	Nicole Wanek	UW-Manitowoc	5
	2	4	Bryan Carlson	UW-Fox Valley	4
	2	4	William Johnson	UW-Green Bay	18
	2	6	Matt Brewer	UW-Eau Claire	12
	3	7	Jonathan Sass	UW-Madison	24
	7	19	John Schafer	UW-Milwaukee	68
	7	19	Jessica VandeWalle	UW-Milwaukee	69
	7	20	Amanda Maslowski	UW-Milwaukee	71
	8	24	Ben Schoepke	UW-Madison	24
	9	25	Kelly VanderBloomen	UW-Manitowoc	5
	9	27	Rebecca Ertel	UW-Manitowoc	5
	9	27	Paula Olig	UW-Platteville	38
	10	28	Arin Ellingson	UW-Madison	24
	10	28	Crystal Osman	UW-Green Bay	15
	10	29	Jeff Grinager	UW-Stout	52
	10	29	Jessica Van Der Werff	UW-Stout	55
	11	31	Carly Polk	UW-Whitewater	62
	11	31	Jessica Solis	UW-Whitewater	63
	12	34	Rebecca Cote	UW-River Falls	45
	13	37	Jim Bruhn	UW-Platteville	40
	14	41	David Flagel	UW-Oshkosh	31
	14	41	Eric Doro	UW-Platteville	36
	15	43	Phil Castillo	UW-Whitewater	65
	15	43	Josh Roe	UW-Whitewater	67
	15	43	Ryan Schele	UW-Platteville	35
	15	44	John Pettey	UW-Whitewater	64
	15	45	Roshni Patel	UW-Madison	26
	16	47	Ben Tredinnick	UW-Platteville	35
	17	49	Ashleigh Waltz	UW-Platteville	40
	18	52	Micah Scorcio	UW-Oshkosh	30
	18	54	Matt Rubin	UW-Oshkosh	32
	19	57	Grant Michelsen-Pierce	UW-Stout	53
	19	57	Amy Vandenheuvel	UW-Oshkosh	34
	20	58	Joe Holquist	UW-Washington County	7
	20	58	Kristin McElligott	UW-Milwaukee	72

STUDENT PRESENTERS: by Wisconsin Legislative district

District	Senate/House	Student Presenter	Institution	Poster
20	58	Adam Maus	UW-Madison	28
20	58	Mark Petri	UW-Washington County	7
20	60	Mel Toeller	UW-Washington County	7
21	62	Anthony Kuchera	UW-Oshkosh	33
23	67	Michael Ojibway	UW-Eau Claire	10
23	68	Mitch Phillipson	UW-Eau Claire	11
23	68	Teri Sanders	UW-Eau Claire	13
23	68	Tanya Smeltzer	UW-Eau Claire	11
23	69	Autumn McKeel	UW-Stevens Point	50
24	70	Daniel Dissing	UW-Stevens Point	48
24	71	Heidel Brady	UW-Eau Claire	9
24	71	Elizabeth Kaufman	UW-La Crosse	19
24	71	Megan Pederson	UW-Eau Claire	9
24	72	Luke Fara	UW-Stevens Point	49
25	73	Kevin Anderson	UW-Superior	57
25	73	Eric Johnson	UW-Superior	60
25	73	Daniel Levings	UW-Superior	60
25	73	Mackenzie Sullivan	UW-Superior	58
25	73	Joseph Welch	UW-Stevens Point	47
25	73	Sara Wroblewski	UW-Superior	57
25	75	Anna Markgren	UW-Platteville	37
26	76	Caitlin Carlson	UW-Milwaukee	70
26	77	Vanessa Kung	UW-Madison	25
27	80	Daniel Hoesly	UW-Platteville	3
28	82	Gwynn DeBoer	UW-Whitewater	61
28	82	Eric Phillips	UW-Whitewater	66
29	85	Christina Burek	UW-Stevens Point	50
29	85	Paula Buntin	UW-Stevens Point	51
29	87	Andrew Melby	UW-Platteville	36
30	90	Katie Becker	UW-Stevens Point	50
31	93	Jarrold Feight	UW-Stout	56
31	93	Tyler Bechel	UW-Platteville	36
32	95	Nelson Johnson	UW-La Crosse	23
32	96	Rebecca O'Brien	UW-La Crosse	21
32	96	Alex Stark	UW-Platteville	40

We wish to thank the following individuals and organizations.
Without their help, the Posters in the Rotunda
event could not be possible.

Wisconsin Arts Education Association
Dr. Nancy Hensel — Council for Undergraduate Research
Bill Campbell — UW-River Falls
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Assembly Sergeant at Arms Office
Senate Sergeant at Arms Office
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