



# 7 RIVERS

UNDERGRADUATE  
RESEARCH SYMPOSIUM

## QUICK REFERENCE

*Friday, November 15, 2019*



**VITERBO** UNIVERSITY



# 7 RIVERS

## UNDERGRADUATE RESEARCH SYMPOSIUM

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**VITERBO**UNIVERSITY



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## UNDERGRADUATE RESEARCH SYMPOSIUM

***Welcome to the 2019  
Seven Rivers Undergraduate Research Symposium!***

*This Quick Reference is designed to help you make the most of today's Symposium. In addition to the materials found here, you can find the complete Seven Rivers Abstract Book, Award Evaluation Criteria, Lists of Student Presenters and much more on our website: [www.viterbo.edu/sevenrivers](http://www.viterbo.edu/sevenrivers).*

*If you have questions at any point throughout the day, please come to the Help Table in the Fine Arts Center Lobby or approach a volunteer for assistance (with the green nametags).*

*Thank you and we hope you enjoy today's celebration of academic achievement!*



**VITERBO** UNIVERSITY

# Symposium Schedule

- 9:00-10:10am**      **Registration** (*Fine Arts Center Atrium*)
- Light refreshments and breakfast will be provided.
  - Research posters may be set up at this time.
- 10:10am-11:20am**      **Welcome and Keynote Address** (*Fine Arts Center Main Theater*)
- *Welcome*, Vice President of Academic Affairs Tracy Stewart
  - *Keynote Introduction*, Melissa Edgar, Pre-Med/Biology '21
  - *Keynote address: Dr. Paul Mueller*
    - **“Creating and Sustaining a Biomedical Ethics Research Program: Lessons Learned”**
  - *Closing and Symposium Reminders*, Colin Burns-Gilbert, Integrated Learning and Programs Coordinator
- 11:20am-12noon**      **Break & Distribution of Lunches in the Fine Arts Center (FAC)**
- \*\* Lunch is provided for registered participants only \*\***
- Lunch seating available:
    - **Fine Arts Center:** Main Theater Lobby and Hospitality Suite
    - **Nursing Center:** Lobby, Room 195, Room 104, Room 103
  - Research posters available for viewing in the FAC Main Theater Lobby & Nursing Center Room 195.
- 12noon-2:00pm**      **Oral Presentations** (*Nursing Center 101, 201, 202 & Fine Arts Center 204*)
- Presentations consist of a 10-12 minute talk followed by 3-5 minutes for questions. There will be a 5-minute break between presentations.
  - Quick References are available at the Help Table; the Alphabetical Listing of Presenters, Full Abstract Book, and Evaluation Criteria are available online at [www.viterbo.edu/sevenrivers](http://www.viterbo.edu/sevenrivers).
- 2:00-4:00pm**      **Poster Sessions** (*Fine Arts Center Main Theater Lobby, Nursing Center 195*)
- Research and creative works posters will be staffed by student researcher(s).
  - Odd-numbered posters will be staffed for the first hour and even-numbered posters will be staffed for the second hour.
- 4:00-4:30pm**      **Awards Social and Closing** (*Fine Arts Center Main Theater Lobby*)
- Join us for cake, punch, awards, and some relaxed time for socializing and networking.



# 7 RIVERS

## UNDERGRADUATE RESEARCH SYMPOSIUM

### Lunch Locations

*While you are free to eat your lunch wherever you like,  
the following spaces have been set aside for you  
(see the campus map on the back page):*

**Fine Arts Center Main Theater Lobby**

**Fine Arts Center Hospitality Suite**

**Nursing Center Room 195 and Lobby**

**Nursing Center Room 104 and 103**

*You are also encouraged to peruse the research posters set up in  
the Fine Arts Center Main Theater Lobby and Nursing Center  
Room 195.*

*Please approach the Help Table or a Seven Rivers volunteer  
(with the green nametags) if you have any questions.*

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## Oral Presentations by Room Start Time

Nursing Center Room 101		Facilitator: Kirsten Gabriel		Judges: Michael Parker & Dale Krageschmidt	
First	Last	Institution	Discipline	Start	
Ashlee	Jeffers	Viterbo University	Art	12noon	
Title: The Unique Print: Pushing the Traditions of Art through Monotypes					
Lauralee	Rood	Viterbo University	Religious Studies & Theology	12:20pm	
Title: Yahweh and the Concept of Herem in the Old Testament					
Carson	Skemp	Viterbo University	Spanish	12:40pm	
Title: Ruth Behar: Identities Lost and Found in Immigration					
Chase	Anderson	UW-Eau Claire	Environmental Studies	1pm	
Title: Demographics and Activities of Tourists in Mozambique					
Allison	Dunne	Viterbo University	Psychology	1:20pm	
Title: You Aren't Perfect: The Role of Basic Needs and Motivation on Perfectionism					
Laura	Weidemann	Viterbo University	Philosophy and Ethics	1:40pm	
Title: Ethical Eating: The What, How, and Why of our Food System					
Nursing Center Room 201		Facilitator: Jim Evans		Judges: Terresa Bubbers & Susan Cosby Ronnenberg	
First	Last	Institution	Discipline	Start	
Miranda	Myszka	Viterbo University	Education and History	12noon	
Title: Racist Stereotypes of African American Students in Wisconsin's Education System					
Migdalia	Simpson	UW-La Crosse	Psychology	12:20pm	
Title: Mixed in the Media: Media Representation and Self-Identity of Multiracial Individuals					
Chloe	Zielke	UW-Eau Claire	Sociology	12:40pm	
Title: Religion and Its Linkage to the Wellbeing of the Chinese Elderly					
Quang Anh	Nguyen	Luther College	Psychology	1pm	
Title: The effects of gender and marriage on Trauma, Meaning in Life, and Forgiveness in Haiti, Puerto and Nigeria					
Sam Devon	Fonder Silver	Saint Norbert College	Psychology	1:20pm	
Title: Effects of Three Types of Attentional Focus on Standing Long Jump Performance					
Kelli	Richardson	Viterbo University	Nutrition	1:40pm	
Title: Nutrition in Midwest State Department of Corrections Prisons					

Nursing Center Room 202		Facilitator: Jennifer Sadowski		Judges: Christopher Mayne and Ted Wilson	
First	Last	Institution	Discipline	Start	
Madalyn	Bollig	Saint Mary's University of MN	Environmental Biology	12noon	Title: The Relationship Between Needlegrass (Stipa spartea) and Spotted Knapweed (Centaurea biebersteinii) in the Crex Meadows State Wildlife Area
Aleah	Anderson	UW-Eau Claire	Environmental Public Health	12:20pm	
Connor	Barnes				Title: Particulate Air Quality Around Wisconsin Frac Sand Mining
Josephine	Killoren				
Alissa	Griswold	Viterbo University	Urban Agriculture	12:40pm	Title: Herb and Blossom Shelf Life with Hillview Urban Agriculture Internship
Ben	Borash	Saint Mary's University of MN	Environmental Biology	1pm	
Thomas	MacGregor	Viterbo University	Biology	1:20pm	Title: Examination of Hole Size and Shape in Mason Bee Nesting Preferences
Jacob	Kramer	Saint Mary's University of MN	Biology	1:40pm	
Title:		A Report on Nocturnal Avian Mortality at Communication Towers and Buildings In and Near Winona, MN Due to High Cloud Cover			
Fine Arts Center 204		Facilitator: Michael Wodzak		Judges: Scott Gabriel and R. Charles Lawrence	
First	Last	Institution	Discipline	Start	
Kean	Fallon	UW-La Crosse	Mathematics	12noon	Title: Rainbow sums
Zack	Bracken	Saint Mary's University of MN	Biology	12:20pm	
Natalie	Ruegsegger				Title: The effects of utero Atrazine exposure on Mus musculus GST expression mRNA in relationship to circadian rhythm
Melissa	Edgar	Viterbo University	Medical	12:40pm	
Title:		The Safety and Efficacy of Intravenous Ferumoxytol versus Intravenous Iron Dextran in Pediatric Patients with Iron Deficiency			
Lucas	Ritter	Viterbo University	Mathematics	1pm	Title: How Romance Between Mice Leads to Pi

# Poster Presentations by Room/#

**Key:** NRC = Nursing Center Room 195, MTL = Fine Arts Center Main Theater Lobby

Poster Session Coordinators: NRC 195 = Kim Olson-Kopp, FAC MTL = Matthew Bersagel Braley

Odd #s = 2p-3p, Even #s = 3p-4p

Poster #	First Name	Last Name	Institution	Discipline
NRC - 1	Alexa	Baker	Viterbo University	Social Work
Title: Evaluation of the Implementation of Trauma Informed Approaches in K-12 Schools				
NRC - 2	Quang Anh	Nguyen	Luther College	Psychology
Title: The effects of gender and marriage on Trauma, Meaning in Life, and Forgiveness in Haiti, Puerto and Nigeria				
NRC - 3	Zaria	Beyer	Viterbo University	Ethics
Title: The Ethics of Vaccinations				
NRC - 4	John	Lawlis	UW-La Crosse	Political Science
Title: Voting Against Party Interests: An Analysis of the Wisconsin State Legislature				
NRC - 5	Harley	Large	Viterbo University	Social Work
Title: Children and Homelessness				
NRC - 6	Alexis	Salem	Winona State University	Psychology
Title: Effects of Dextromethorphan on Sign and Goal Tracking				
NRC - 7	Sarah	Eachus	Luther College	Psychology
Title: Forgiveness as a Buffer to Psychological Distress and Negative Life Events in Guyana				
NRC - 8	Abigail Thomas Danielle Elizabeth	Benvenuto Carlson Langworthy Schmitt	Winona State University	Psychology
Title: Perceived Stress and Physical Health in La Crosse County Residents: The Intervening Effects of Education, Income, and Race				
NRC - 9	Abigail Ember	Pickett Griebeling	Luther College	Psychology
Title: Implementing a Counseling Minor at Luther College				
NRC - 10	Claire	Trussoni	Viterbo University	English Literature
Title: Playing in the Woods: Harvest Moon and Pastoral Escapism				
NRC - 11	Ingrid	Christopherson	Luther College	Psychology
Title: Trauma, Meaning of Life, and Forgiveness in Haiti, Nigeria, and Puerto Rico				



Poster #	First Name	Last Name	Institution	Discipline
NRC - 12	Carina Abbie	Hansen Madson	Luther College	Psychology
Title: Trends and Potential Causes of Obesity Among Preschoolers				
NRC - 13	Kaitlyn	Kirtz	Viterbo University	Social Work
Title: Perceptions of the Effectiveness of Mental Health Services in Schools				
NRC - 14	Sarah	Trandahl	Viterbo University	English Writing
Title: An Ekphrastic Study of Edgar Degas' Art				
MTL - 15	Holly	Nelson	Viterbo University	Nutrition and Dietetics
Title: 12-Week Vegetarian Diet Intervention Effect on Inflammatory Status and Cardio-Metabolic Parameters				
MTL - 16	Laura	Zinnel	UW-La Crosse	Mathematics
Title: Anti-Schur numbers for $x_1+x_2=x_3$ in $[n] \times [m]$				
MTL - 17	Cullen	Schull	UW-La Crosse	Organic Chemistry
Title: Asymmetric Synthesis of Di- and Mono- Substituted Curcuminoids				
MTL - 18	Daniel	Johnson-Schunk	UW-La Crosse	Geography
Title: Biodiversity Characterization in a Native Prairie in Western Wisconsin using an Unmanned Aerial System (UAS) Imagery				
MTL - 19	Chelsey	Sloan	UW-La Crosse	Geography
Title: Collection & Initial Description of Sediment Core from Mud Lake in Jefferson County, WI				
MTL - 20	Carl	Fossum	UW-Eau Claire	Biochemistry
Title: Computation of Binding Free Energy of Tryptophan-Cosolute Complexes				
MTL - 21	Ruth	Woehlke	UW-Eau Claire	Chemistry and Physics
Title: Construction and Evaluation of Polycaprolactone Fibers for Drug Release Implants				
MTL - 22	Alexander	Narkiewicz-Jodko	UW-Eau Claire	Biochemistry
	Murphi	Williams		
Title: Crowding Effects on Prolyl-tRNA Synthetase Visualized via Atomic Force Microscopy				
MTL - 23	Vanessa	Czeszynski	UW-La Crosse	Aquatic Biology
Title: Dissolved Organic Carbon: A Link Between Vital Processes in Streams and Lakes				
MTL - 24	Jessica	Liebau	UW-Eau Claire	Biochemistry
	Aubrey	Liew		
Title: Investigation of Interactions Between Protein and Poly(ethyleneglycol) using Enzyme Kinetics and Fluorescence Studies				
MTL - 25	Breanna	Murray	Winona State University	Organic Chemistry
Title: F-19 NMR Determination of Relative Rate Constants for Hydrogen Abstraction by p-fluorophenyl Radicals from Fatty Acid Methyl Esters				

<b>Poster #</b>	<b>First Name</b>	<b>Last Name</b>	<b>Institution</b>	<b>Discipline</b>
<b>MTL - 26</b>	<b>Michaela</b>	<b>Jurewicz</b>	<b>Northland College</b>	<b>Chemistry</b>
<b>Title:</b> Fluorescence in New World Flying Squirrels				
<b>MTL - 27</b>	<b>Alleah</b>	<b>Baltzer</b>	<b>UW-Eau Claire</b>	<b>Mathematics</b>
	<b>Logan</b>	<b>Pauly</b>		
<b>Title:</b> Analyzing Changes in Stock Pricing Data Using Bimodal Data				
<b>MTL - 28</b>	<b>Jennet</b>	<b>Hojanazarova</b>	<b>Waldorf University</b>	<b>Biology</b>
<b>Title:</b> Morphological assays to test the functional interdependence of ALG-2 and IP3R3 in calcium regulation of ER to Golgi transport				
<b>MTL - 29</b>	<b>Megan</b>	<b>Hickinbotham</b>	<b>UW-La Crosse</b>	<b>Geography and Earth Science</b>
<b>Title:</b> Organic and Carbonate Content from a Lake Sediment Core, South Central Wisconsin				
<b>MTL - 30</b>	<b>Casey</b>	<b>Sroda</b>	<b>UW-Eau Claire</b>	<b>Physics</b>
<b>Title:</b> Organic Light-Emitting Diode Fabrication and Exploration of the Organic Magnetoresistance Effect				
<b>MTL - 31</b>	<b>Aleah</b>	<b>Anderson</b>	<b>UW-Eau Claire</b>	<b>Environmental Public Health</b>
	<b>Connor</b>	<b>Barnes</b>		
	<b>Josephine</b>	<b>Killoren</b>		
<b>Title:</b> Particulate Air Quality Around Wisconsin Frac Sand Mining				
<b>MTL - 32</b>	<b>Hannah</b>	<b>Krause</b>	<b>Viterbo University</b>	<b>Biology</b>
<b>Title:</b> Role of Biochemical Components of the Tumor Microenvironment on Cancer Progression				
<b>MTL - 33</b>	<b>Abby</b>	<b>Bishop</b>	<b>UW-La Crosse</b>	<b>Exercise and Sport Science</b>
	<b>Cassidy</b>	<b>McCann</b>		
<b>Title:</b> The Effects of the Ketogenic Diet on Body Composition and Performance in Resistance Training Female Athletes				
<b>MTL - 34</b>	<b>MacKenzie</b>	<b>Christy</b>	<b>UW-La Crosse</b>	<b>Nutrition</b>
<b>Title:</b> The Effects of a Ketogenic Supplement on Body Composition and Performance in Resistance Training Women				
<b>MTL - 35</b>	<b>Benjamin</b>	<b>Johnson</b>	<b>UW-Eau Claire</b>	<b>Biochemistry</b>
<b>Title:</b> The Effects of Monomer and Polymer Cosolutes on the Intrinsic Fluorescence of Tryptophan and Escherichia coli prolyl-tRNA synthetase				
<b>MTL - 36</b>	<b>Theodore</b>	<b>Braman</b>	<b>Viterbo University</b>	<b>Biology</b>
<b>Title:</b> The Effect of Ethanol on the Microbiome and Anxious Behavior in a Rat Model				
<b>MTL - 37</b>	<b>Nico</b>	<b>Lang</b>	<b>UW-La Crosse</b>	<b>Synthetic Organic Chemistry</b>
<b>Title:</b> Microwave-Assisted Efficient One-Pot Synthesis of Curcumin and Curcuminoids				
<b>MTL - 38</b>	<b>Bryan</b>	<b>Sengbusch</b>	<b>Viterbo University</b>	<b>Biology</b>
<b>Title:</b> ykkCD riboswitch mutation for fluorescent binding assays				

Poster #	First Name	Last Name	Institution	Discipline
MTL - 39	Elaine	Remus	Viterbo University	Biology
Title: Danaus plexippus Food Preferences in Correlation to Oviposition				
MTL - 40	Hailey	Bell	Viterbo University	Nursing
	Kyah	Flock		
	Derek	Myers		
	Elena	Witt		
	Reghan	Wohlrab		
Title: Social Determinants of Health in Disadvantaged Populations				

## Oral Presentations by Last Name

NRC = Nursing Center, FAC = Fine Arts Center

Start	Room	First Name	Last Name	Institution	Discipline
1pm	NRC101	Chase	Anderson	UW-Eau Claire	Environmental Studies
Title: Demographics and Activities of Tourists in Mozambique					
12:20pm	NRC202	Aleah	Anderson	UW-Eau Claire	Environmental Public Health
Title: Particulate Air Quality Around Wisconsin Frac Sand Mining					
12:20pm	NRC202	Connor	Barnes	UW-Eau Claire	Environmental Public Health
Title: Particulate Air Quality Around Wisconsin Frac Sand Mining					
12noon	NRC202	Madalyn	Bollig	Saint Mary's University of MN	Environmental Biology
Title: The Relationship Between Needlegrass ( <i>Stipa spartea</i> ) and Spotted Knapweed ( <i>Centaurea biebersteinii</i> ) in the Crex Meadows State Wildlife Area					
1pm	NRC202	Ben	Borash	Saint Mary's University of MN	Environmental Biology
Title: Modeling Human-Snake Conflict for Timber Rattlesnakes in Winona County, Minnesota					
12:20pm	FAC204	Zack	Bracken	Saint Mary's University of MN	Biology
Title: The effects of utero Atrazine exposure on <i>Mus musculus</i> GST expression mRNA in relationship to circadian rhythm					
1:20pm	NRC101	Allison	Dunne	Viterbo University	Psychology
Title: You Aren't Perfect: The Role of Basic Needs and Motivation on Perfectionism					
12:40pm	FAC204	Melissa	Edgar	Viterbo University	Medical
Title: The Safety and Efficacy of Intravenous Ferumoxytol versus Intravenous Iron Dextran in Pediatric Patients with Iron Deficiency					
12noon	FAC204	Kean	Fallon	UW-La Crosse	Mathematics
Title: Rainbow sums					
1:20pm	NRC201	Sam	Fonder	Saint Norbert College	Psychology
Title: Effects of Three Types of Attentional Focus on Standing Long Jump Performance					
12:40pm	NRC202	Alissa	Griswold	Viterbo University	Urban Agriculture
Title: Herb and Blossom Shelf Life with Hillview Urban Agriculture Internship					
12noon	NRC101	Ashlee	Jeffers	Viterbo University	Art
Title: The Unique Print: Pushing the Traditions of Art through Monotypes					
12:20pm	NRC202	Josephine	Killoren	UW-Eau Claire	Environmental Public Health
Title: Particulate Air Quality Around Wisconsin Frac Sand Mining					
1:40pm	NRC202	Jacob	Kramer	Saint Mary's University of MN	Biology
Title: A Report on Nocturnal Avian Mortality at Communication Towers and Buildings In and Near Winona, MN Due to High Cloud Cover					

Start	Room	First Name	Last Name	Institution	Discipline
1:20pm	NRC202	Thomas	MacGregor	Viterbo University	Biology
Title: Examination of Hole Size and Shape in Mason Bee Nesting Preferences					
12noon	NRC201	Miranda	Myszka	Viterbo University	Education and History
Title: Racialist Stereotypes of African American Students in Wisconsin's Education System					
1pm	NRC201	Quang Anh	Nguyen	Luther College	Psychology
Title: The effects of gender and marriage on Trauma, Meaning in Life, and Forgiveness in Haiti, Puerto and Nigeria					
1:40pm	NRC201	Kelli	Richardson	Viterbo University	Nutrition
Title: Nutrition in Midwest State Department of Corrections Prisons					
1pm	FAC204	Lucas	Ritter	Viterbo University	Mathematics
Title: How Romance Between Mice Leads to Pi					
12:20pm	NRC101	Lauralee	Rood	Viterbo University	Religious Studies & Theology
Title: Yahweh and the Concept of Herem in the Old Testament					
12:20pm	FAC 204	Natalie	Ruegsegger	Saint Mary's University of MN	Biology
Title: The effects of utero Atrazine exposure on Mus musculus GST expression mRNA in relationship to circadian rhythm					
1:20pm	NRC201	Devon	Silver	Saint Norbert College	Psychology
Title: Effects of Three Types of Attentional Focus on Standing Long Jump Performance					
12:20pm	NRC201	Migdalía	Simpson	UW-La Crosse	Psychology
Title: Mixed in the Media: Media Representation and Self-Identity of Multiracial Individuals					
12:40pm	NRC 101	Carson	Skemp	Viterbo University	Spanish
Title: Ruth Behar: Identities Lost and Found in Immigration					
1:40pm	NRC 101	Laura	Weidemann	Viterbo University	Philosophy and Ethics
Title: Ethical Eating: The What, How, and Why of our Food System					
12:40pm	NRC201	Chloe	Zielke	UW-Eau Claire	Sociology
Title: Religion and Its Linkage to the Wellbeing of the Chinese Elderly					

# Poster Presentations by Last Name

**KEY: NRC = Nursing Center Room 195, MTL = Fine Arts Center Main Theater Lobby**

Poster Session Coordinators: NRC 195 = Kim Olson-Kopp, FAC MTL = Matthew Bersagel Braley

Odd #s = 2p-3p, Even #s = 3p-4p

Location	First Name	Last Name	Institution	Discipline
MTL - 31	Aleah	Anderson	UW-Eau Claire	Environmental Public Health
Title: Particulate Air Quality Around Wisconsin Frac Sand Mining				
NRC - 1	Alexa	Baker	Viterbo University	Social Work
Title: Evaluation of the Implementation of Trauma Informed Approaches in K-12 Schools				
MTL - 27	Alleah	Baltzer	UW-Eau Claire	Mathematics
Title: Analyzing Changes in Stock Pricing Data Using Bimodal Data				
MTL - 31	Connor	Barnes	UW-Eau Claire	Environmental Public Health
Title: Particulate Air Quality Around Wisconsin Frac Sand Mining				
MTL - 40	Hailey	Bell	Viterbo University	Nursing
Title: Social Determinants of Health in Disadvantaged Populations				
NRC - 8	Abigail	Benvenuto	Winona State University	Psychology
Title: Perceived Stress and Physical Health in La Crosse County Residents: The Intervening Effects of Education, Income, and Race				
NRC - 3	Zaria	Beyer	Viterbo University	Ethics
Title: The Ethics of Vaccinations				
MTL - 33	Abby	Bishop	UW-La Crosse	Exercise and Sport Science
Title: The Effects of the Ketogenic Diet on Body Composition and Performance in Resistance Training Female Athletes				
MTL - 36	Theodore	Braman	Viterbo University	Biology
Title: The Effect of Ethanol on the Microbiome and Anxious Behavior in a Rat Model				

Location	First Name	Last Name	Institution	Discipline
NRC - 8	Thomas	Carlson	Winona State University	Psychology
Title:	Perceived Stress and Physical Health in La Crosse County Residents: The Intervening Effects of Education, Income, and Race			
NRC - 11	Ingrid	Christopherson	Luther College	Psychology
Title:	Trauma, Meaning of Life, and Forgiveness in Haiti, Nigeria, and Puerto Rico			
MTL - 34	MacKenzie	Christy	UW-La Crosse	Nutrition
Title:	The Effects of a Ketogenic Supplement on Body Composition and Performance in Resistance Training Women			
MTL - 23	Vanessa	Czeszynski	UW-La Crosse	Aquatic Biology
Title:	Dissolved Organic Carbon: A Link Between Vital Processes in Streams and Lakes			
NRC - 7	Sarah	Eachus	Luther College	Psychology
Title:	Forgiveness as a Buffer to Psychological Distress and Negative Life Events in Guyana			
MTL - 40	Kyah	Flock	Viterbo University	Nursing
Title:	Social Determinants of Health in Disadvantaged Populations			
MTL - 20	Carl	Fossum	UW-Eau Claire	Biochemistry
Title:	Computation of Binding Free Energy of Tryptophan-Cosolute Complexes			
NRC - 9	Ember	Griebeling	Luther College	Psychology
Title:	Implementing a Counseling Minor at Luther College			
NRC - 12	Carina	Hansen	Luther College	Psychology
Title:	Trends and Potential Causes of Obesity Among Preschoolers			
MTL - 29	Megan	Hickinbotham	UW-La Crosse	Geography and Earth Science
Title:	Organic and Carbonate Content from a Lake Sediment Core, South Central Wisconsin			
MTL - 28	Jennet	Hojanazarova	Waldorf University	Biology
Title:	Morphological assays to test the functional interdependence of ALG-2 and IP3R3 in calcium regulation of ER to Golgi transport			

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MTL - 35	Benjamin	Johnson	UW-Eau Claire	Biochemistry
Title: The Effects of Monomer and Polymer Cosolutes on the Intrinsic Fluorescence of Tryptophan and Escherichia coli prolyl-tRNA synthetase				
MTL - 18	Daniel	Johnson-Schunk	UW-La Crosse	Geography
Title: Biodiversity Characterization in a Native Prairie in Western Wisconsin using an Unmanned Aerial System (UAS) Imagery				
MTL - 26	Michaela	Jurewicz	Northland College	Chemistry
Title: Fluorescence in New World Flying Squirrels				
MTL - 31	Josephine	Killoren	UW-Eau Claire	Environmental Public Health
Title: Particulate Air Quality Around Wisconsin Frac Sand Mining				
NRC - 13	Kaitlyn	Kirtz	Viterbo University	Social Work
Title: Perceptions of the Effectiveness of Mental Health Services in Schools				
MTL - 32	Hannah	Krause	Viterbo University	Biology
Title: Role of Biochemical Components of the Tumor Microenvironment on Cancer Progression				
MTL - 37	Nico	Lang	UW-La Crosse	Synthetic Organic Chemistry
Title: Microwave-Assisted Efficient One-Pot Synthesis of Curcumin and Curcuminoids				
NRC - 8	Danielle	Langworthy	Winona State University	Psychology
Title: Perceived Stress and Physical Health in La Crosse County Residents: The Intervening Effects of Education, Income, and Race				
NRC - 5	Harley	Large	Viterbo University	Social Work
Title: Children and Homelessness				
NRC - 4	John	Lawlis	UW-La Crosse	Political Science
Title: Voting Against Party Interests: An Analysis of the Wisconsin State Legislature				
MTL - 24	Jessica	Liebau	UW Eau Claire	Biochemistry
Title: Investigation of Interactions Between Protein and Poly(ethyleneglycol) using Enzyme Kinetics and Fluorescence Studies				



Location	First Name	Last Name	Institution	Discipline
MTL - 24	Aubrey	Liew	UW-Eau Claire	Biochemistry
Title:	Investigation of Interactions Between Protein and Poly(ethyleneglycol) using Enzyme Kinetics and Fluorescence Studies			
NRC - 12	Abbie	Madson	Luther College	Psychology
Title:	Trends and Potential Causes of Obesity Among Preschoolers			
MTL - 33	Cassidy	McCann	UW-La Crosse	Exercise and Sport Science
Title:	The Effects of the Ketogenic Diet on Body Composition and Performance in Resistance Training Female Athletes			
MTL - 25	Breanna	Murray	Winona State University	Organic Chemistry
Title:	F-19 NMR Determination of Relative Rate Constants for Hydrogen Abstraction by p-fluorophenyl Radicals from Fatty Acid Methyl Esters			
MTL - 40	Derek	Myers	Viterbo University	Nursing
Title:	Social Determinants of Health in Disadvantaged Populations			
MTL - 22	Alexander	Narkiewicz-Jodko	UW-Eau Claire	Biochemistry
Title:	Crowding Effects on Prolyl-tRNA Synthetase Visualized via Atomic Force Microscopy			
MTL - 15	Holly	Nelson	Viterbo University	Nutrition and Dietetics
Title:	12-Week Vegetarian Diet Intervention Effect on Inflammatory Status and Cardio-Metabolic Parameters			
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Title:	The effects of gender and marriage on Trauma, Meaning in Life, and Forgiveness in Haiti, Puerto and Nigeria			
MTL - 27	Logan	Pauly	UW-Eau Claire	Mathematics
Title:	Analyzing Changes in Stock Pricing Data Using Bimodal Data			
NRC - 9	Abigail	Pickett	Luther College	Psychology
Title:	Implementing a Counseling Minor at Luther College			
MTL - 39	Elaine	Remus	Viterbo University	Biology
Title:	Danaus plexippus Food Preferences in Correlation to Oviposition			

Location	First Name	Last Name	Institution	Discipline
NRC - 6	Alexis	Salem	Winona State University	Psychology
Title:	Effects of Dextromethorphan on Sign and Goal Tracking			
NRC - 8	Elizabeth	Schmitt	Winona State University	Psychology
Title:	Perceived Stress and Physical Health in La Crosse County Residents: The Intervening Effects of Education, Income, and Race			
MTL - 17	Cullen	Schull	UW-La Crosse	Organic Chemistry
Title:	Asymmetric Synthesis of Di- and Mono- Substituted Curcuminoids			
MTL - 38	Bryan	Sengbusch	Viterbo University	Biology
Title:	ykkCD riboswitch mutation for fluorescent binding assays			
MTL - 19	Chelsey	Sloan	UW-La Crosse	Geography
Title:	Collection & Initial Description of Sediment Core from Mud Lake in Jefferson County, WI			
MTL - 30	Casey	Sroda	UW-Eau Claire	Physics
Title:	Organic Light-Emitting Diode Fabrication and Exploration of the Organic Magnetoresistance Effect			
NRC - 14	Sarah	Trandahl	Viterbo University	English Writing
Title:	An Ekphrastic Study of Edgar Degas' Art			
NRC - 10	Claire	Trussoni	Viterbo University	English Literature
Title:	Playing in the Woods: Harvest Moon and Pastoral Escapism			
MTL - 22	Murphi	Williams	UW-Eau Claire	Biochemistry
Title:	Crowding Effects on Prolyl-tRNA Synthetase Visualized via Atomic Force Microscopy			
MTL - 40	Elena	Witt	Viterbo University	Nursing
Title:	Social Determinants of Health in Disadvantaged Populations			
MTL - 21	Ruth	Woehlke	UW-Eau Claire	Chemistry and Physics
Title:	Construction and Evaluation of Polycaprolactone Fibers for Drug Release Implants			

Location	First Name	Last Name	Institution	Discipline
MTL - 40	Reghan	Wohlrab	Viterbo University	Nursing
Title:	Social Determinants of Health in Disadvantaged Populations			
MTL - 16	Laura	Zinnel	UW-La Crosse	Mathematics
Title:	Anti-Schur numbers for $x_1+x_2=x_3$ in $[n] \times [m]$			



# 7 RIVERS

## UNDERGRADUATE RESEARCH SYMPOSIUM

### **Thank You!**

On behalf of the Seven Rivers Undergraduate Research Symposium, we'd like to take this opportunity to express our gratitude to the following people/groups for making this event a reality:

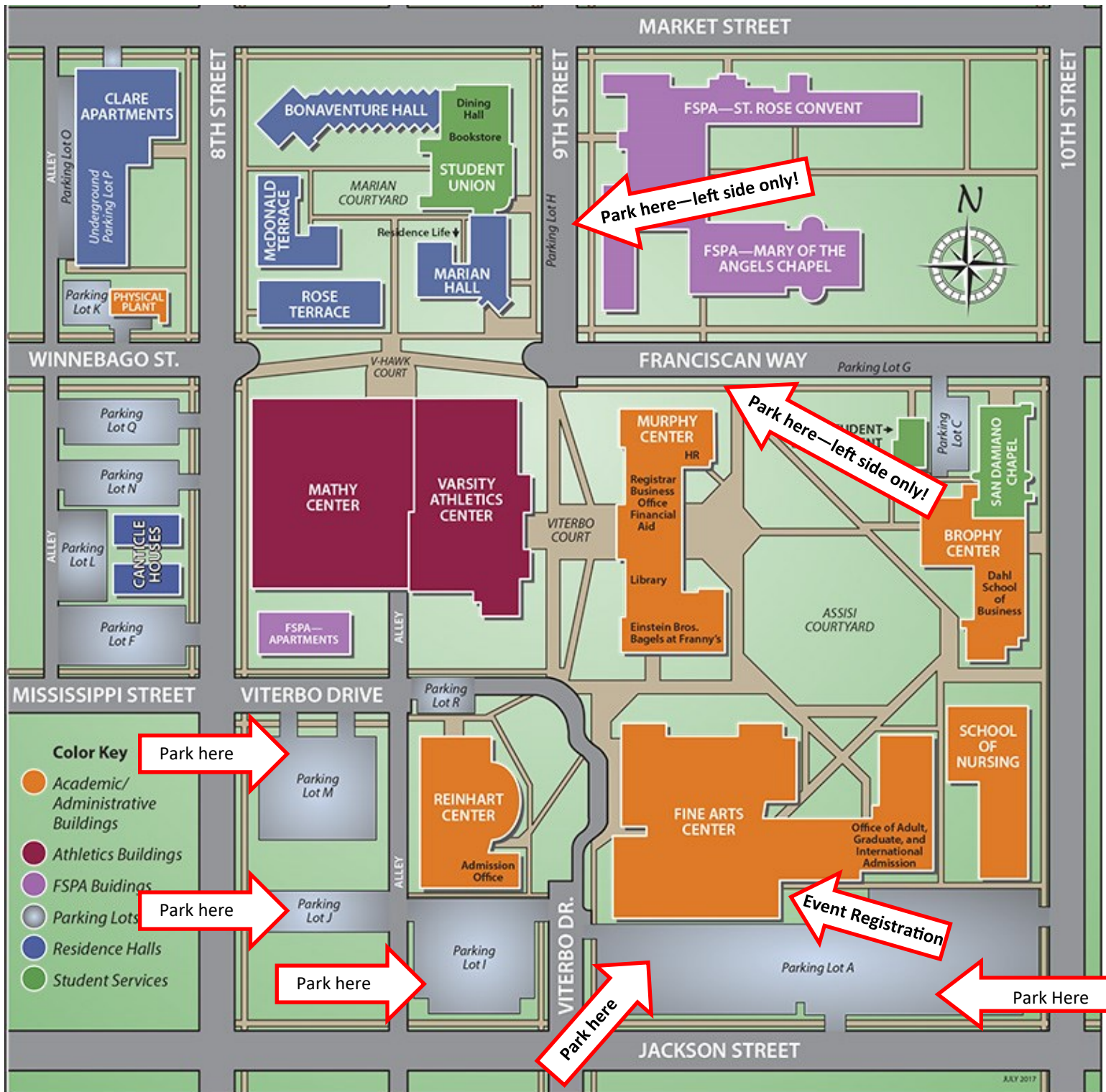
- **Aramark Services Team, Mary Simota & Kayla Sojka**
- **All Fine Arts Center Staff: Doug Wilken, Andy Nauman & Danita Doerre**
- **Copy Center Staff: Karen Hurtgen & Terry Massman**
- **All Volunteers! Students, Judges, Facilitators, and Session Coordinators**
- **Introductions: Dr. Tracy Stewart and Melissa Edgar**
- **Keynote: Dr. Paul Mueller**
- **DB Reinhart Ethics Institute: Nicole Van Ert**
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# **THANK YOU!**



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