

## Friday, January 29, 2016

Time	Event	Location
1:00 pm – 3:15 pm	<p>Registration, Snacks &amp; Campus Tours</p> <p><i>Snacks will be provided. Campus tours meet in the lobby from 3:00 pm to 3:30 pm.</i></p>	Atrium and Lobby, Embassy Suites
3:40 pm – 6:05 pm	<p>Conference Opening Session</p> <p>Christine Kelley, Associate Professor of Mathematics and Co-Chair of NCUWM, University of Nebraska-Lincoln</p> <p>Judy Walker, Professor and Chair, Department of Mathematics, University of Nebraska-Lincoln</p> <hr/> <p>1<sup>st</sup> Plenary Talk: <i>How Does Applied Math Become Applicable?</i></p> <p>Emina Soljanin, Rutgers University</p> <hr/> <p>Panel Discussion: <i>Careers Using Mathematics</i></p> <p><b>Moderator:</b></p> <p>Matthew Douglass, National Science Foundation</p> <p><b>Panelists:</b></p> <p>Lynn Apfel, Department of Defense</p> <p>Lorena Bociu, North Carolina State University</p> <p>Johanna Franklin, Hofstra University</p> <p>Srisuda Holay, Lincoln Public Schools</p> <p>Cristina Polizu, Standard and Poor's</p> <p>Emilie Purvine, Pacific Northwest National Laboratory</p>	Auditorium Second Floor, Nebraska Union
7:00 pm	<p>Banquet &amp; Panel Discussion:</p> <p><i>Random Bits of Advice</i></p> <p><b>Moderator:</b></p> <p>Adam Larios, University of Nebraska-Lincoln</p> <p><b>Panelists:</b></p> <p>Alejandra Alvarado, Eastern Illinois University</p> <p>Emina Soljanin, Rutgers University</p> <p>Abigail Thompson, University of California, Davis</p>	Regents Ballroom BCDEF, Embassy Suites

## Saturday, January 30, 2016

Time	Event	Location
	<b>Breakfast</b>	Atrium, Embassy Suites
7:00 am – 8:00 am	<i>Poster presenters in Session A should set up their posters at this time in Regents Ballroom A. Velcro tape will be provided.</i>	
<b>Session 1 – Presentations by Undergraduate Students</b>		
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites
8:10 am – 8:25 am	<i>Perfect Numbers in the Eisenstein Integers</i> Jordan Hunt, Northern Arizona University	<i>Detecting Foot-Chases from Police Body-Worn Video</i> Qi Yang, University of Southern California
8:30 am – 8:45 am	<i>An Investigation into Some Covers of Finite Spaces</i> Adele Padgett, University of Chicago	<i>Random Visibility in Unit Bars</i> Jiarui Chu, Davidson College
8:50 am – 9:05 am	<i>Comparing Methods of Identifying Knotting Behavior in Open Chains</i> Erin Brine-Doyle and Emily Vecchia, University of St. Thomas	<i>Differential Outcomes by SES in Children Undergoing Treatment for Acute Lymphoblastic Leukemia</i> Emily Roberts, Coe College
9:10 am – 9:25 am	<i>Lattice Point Visibility on Generalized Lines of Sights</i> Sara DeBrabander and Michelle Gebert, University of Wisconsin-Eau Claire	<i>Survival Analysis Dimension Reduction Techniques: A Comparison of Select Methods</i> Claressa Ullmayer, University of Alaska Fairbanks
9:30 am – 9:45 am	<i>A Permutation Test for the Spread of Three-Dimensional Rotation Data</i> Marissa Eckrote, University of Wisconsin-La Crosse	<i>Consensus vs. Fragmentation in a Model of Opinion Dynamics</i> Ratna Khatri, George Mason University

Time	Event	Location	
9:50 am – 10:50 am	<p><b>Panel Discussion:</b>  <i>Choosing a Mathematics Graduate Program</i>  <b>Moderator:</b>            Nathan Wakefield, University of Nebraska-Lincoln  <b>Panelists:</b>            Jessalyn Bolkema, University of Nebraska-Lincoln            Sutthirut Charoenphon, University of Memphis            Katie McKeon, Rutgers University            Rebecca R.G., University of Michigan            Emily Sergel Leven, University of California,            San Diego            Ola Sobieska, Texas A&amp;M University</p>	Regents Ballroom BC, Embassy Suites	
10:50 am – 11:15 am	<p><b>Conference Photo</b>  <i>If you did not sign a photo release statement, please do not participate in the group photo.</i></p>	Outside (if bad weather: in Atrium, Embassy Suites)	
<b>Session 2 – Presentations by Undergraduate Students</b>			
	Regents Ballroom- B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - F Embassy Suites
11:15 am – 11:30 am	<p><i>Ranking Methods for Multi-Player Competitions</i>            Sarah Chehade, University of Houston</p>	<p><i>New Coprime Vertex Labelings</i>            Hannah Prawzinsky, Northern Arizona University</p>	<p><i>Optimizing an Immunization Scheme for Influenza</i>            Majerle Reeves, California State University, Fresno</p>
11:35 am – 11:50 am	<p><i>On the Catenary Degree of Numerical Monoids Generated by a Generalized Arithmetic Sequence</i>            Rachel Domagalski, Central Michigan and Dana Lacey, North Central College</p>	<p><i>Classification of Skew Sturmian Sequences</i>            Sara Stover, Mercer University</p>	<p><i>A Bone Eat Bone World: Math Models of Bone Metabolism</i>            Gabrielle VanScoy, Youngstown State University</p>
11:55 am – 12:10 pm	<p><i>Pushing the Bounds of Numerical Ranges</i>            Rayanne Luke, State University of New York at Geneseo</p>	<p><i>Level Curves of a Real Algebraic Function: A Generalization of a Theorem of Pólya</i>            Sarah Hilsman, Hope College</p>	<p><i>Numerical Results for the IVP to the Burgers Equation with External Forces</i>            Crystal Mackey, Youngstown State University</p>
12:15 pm – 12:30 pm	<p><i>The Relationship Between a Ring and its Completion</i>            Sarah Fleming and Nina Pande, Williams College</p>	<p><i>Applying Finite Element Method in Reservoir Simulation</i>            Yilin Jiang, University of Oklahoma</p>	<p><i>Integrating Fish Movement in Multispecies Population Modeling</i>            China Mauck, Grinnell College</p>

12:40 pm – 2:00 pm	<b>Lunch for Undergraduates</b> Please see restaurant list in your registration materials. If you'd like to go with a group, meet in the hotel lobby by 12:50 pm.		Downtown Lincoln
	<b>Faculty Professional Development Luncheon</b> <i>Meal choice was selected in online registration.</i>		Atrium, Embassy Suites
2:00 pm – 3:00 pm	<b>Poster Session A</b> <i>Poster presenters will be available to discuss their posters.</i>		Regents Ballroom A, Embassy Suites
3:10 pm – 4:05 pm	<b>2<sup>nd</sup> Plenary Talk:</b> <i>Understanding 3-Dimensional Spaces</i> Abigail Thompson, University of California, Davis		Regents Ballroom BC, Embassy Suites
4:15 pm – 4:25 pm	<b>Snack Break</b>		Pre-Convention Area, Embassy Suites
	<b>Session 3 – Presentations by Undergraduate Students</b>		
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - F Embassy Suites
4:30 pm – 4:45 pm	<i>Generalization of the Eulerian Numbers and Multiplex Juggling Sequences</i> Esther Banaian, College of Saint Benedict	<i>On the Topology of the Space of Coverings</i> Shuchi Agrawal, Brown University	<i>Mathematical Modeling, Dynamics, and Simulation of Search and Rescue Operations through UAVs</i> Kathleen McLane, George Mason University
4:50 pm – 5:05 pm	<i>Row Standard Young Tableaux: The Two-Row Case</i> Priyanka Prasad, Butler University	<i>Characterizing the Geometry and Topology of RNA Junctions</i> Christine Wiersma, Alma College	<i>A Study of Youngstown Public Housing Program Participants' Preferences</i> Ashley Orr, Youngstown State University
5:10 pm – 5:25 pm	<i>Unique Hamiltonicity and Computational Algebraic Geometry</i> Monica Busser, Youngstown State University	<i>The Math Behind Art Designs</i> Stina Nyhus, Utah Valley University	<i>Mathematically Modeling Cancer Metastasis Through Mechanical Properties</i> Sruti Prathivadhi, Creighton University

5:35 pm – 6:15 pm	<b>Breakout Session 1</b> <i>Undergraduates have been assigned to breakouts. Please find your tickets at the back of your nametag. Faculty and graduate students are welcome to attend any of the breakout sessions or have been asked to facilitate a session. See the registration desk to confirm breakout facilitation assignments.*</i>	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, P Street Dining Area, Embassy Suites
6:20 pm – 7:00 pm	<b>Breakout Session 2</b> <i>Undergraduates have been assigned to breakouts. Please find your tickets at the back of your nametag. Faculty and graduate students are welcome to attend any of the breakout sessions or have been asked to facilitate a session. See the registration desk to confirm breakout facilitation assignments.*</i>	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, P Street Dining Area, Embassy Suites
7:00 pm – 7:15 pm	<b>Poster Session A Takedown</b> <i>If you presented a poster in Session A, please pick it up before the Pizza Dinner.</i>	Regents Ballroom A, Embassy Suites
7:15 pm	<b>Pizza Dinner</b> <i>Note to undergraduates: Table assignments for conference guests are featured in your bio packet. Please put your nametag on your seat before getting in the buffet line, and please allow table hosts to jump to the front of the line. Be prepared to switch tables during the meal to maximize networking opportunities.</i>	Regents Ballroom BC, Embassy Suites

\* **Breakout Session Tickets:** If you would like to attend different breakout sessions than you chose in your online registration, please come to the conference registration desk to switch your tickets with any extras that are available.

**Please Note:**

Checkout time on Sunday is 1:00 pm.

**If you are flying out of Lincoln:**

Hotel shuttles to the airport depart on the hour, and every half hour as needed. Please be sure to let the front desk staff know when you need to depart. The typical amount of time needed to arrive at the Lincoln airport is 1 hour and 15 minutes prior to flight departure.

**If you are flying out of Omaha:**

Allow at least an hour of drive time to the airport (weather permitting) and an additional 1 hour and 15 minutes prior to flight departure. If you are using OMALiNK, they should have scheduled this with you.

## Sunday, January 31, 2016

Time	Event	Location
7:00 am – 8:00 am	<b>Breakfast</b> <i>Poster presenters in Session B should set up their posters at this time in Regents Ballroom A. Velcro tape will be provided.</i>	Atrium, Embassy Suites
<b>Session 4 – Presentations by Undergraduate Students</b>		
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites
8:10 am – 8:25 am	<i>Involution Subword Complexes in Coxeter Groups</i> Lilly Webster, Grinnell College	<i>The First Subconstituent of a Strongly Regular Graph</i> Megan Roddie, Sam Houston State University
8:30 am – 8:45 am	<i>K-forcing in Neurodegenerative Disease Spread</i> Courtney Cochrane, Davidson College	<i>Modeling in Ecology: Simulating the Reintroduction of the Extinct Passenger Pigeon</i> Alanna Riederer, University of Central Oklahoma
8:55 am – 9:35 am	<b>Breakout Session 3</b> <i>Undergraduates have been assigned to breakouts. Please find your tickets at the back of your nametag. Faculty and graduate students are welcome to attend any of the breakout sessions or they have been asked to facilitate a session. See the registration desk to confirm breakout facilitation assignments.*</i>	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, Embassy Restaurant, Embassy Suites
9:35 am – 10:15 am	<b>Poster Session B</b> <i>Poster presenters will be available to discuss their posters. Snacks available at this time.</i>	Regents Ballroom A, Embassy Suites

Session 5 – Presentations by Undergraduate Students			
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - EF Embassy Suites
10:20 am – 10:35 am	<i>Collaboration: A Mathematical and Medical Partnership</i> Kate Causey, Furman University	<i>A Game Theory Approach to the Cost-Benefit Analysis of a Public versus Private University Degree</i> Emily Stark, Austin Peay State University	<i>The Territorial Raider Model with Strategic Movement and Multi-Group Interactions</i> Nina Galanter, Grinnell College
10:40 am – 10:55 am	No presentation at this time	<i>Fairness in an Agent-Based Evolutionary Game</i> Qianru Zhu, Penn State University	<i>Cycles in Various Nonlinear, Age-Structured Population Models</i> Melissa Theobald, Northern Arizona University
11:00 am – 11:10 am	Closing Remarks Christine Kelley, University of Nebraska-Lincoln Glenn Ledder, University of Nebraska-Lincoln		Regents Ballroom BC, Embassy Suites
11:10 am – 11:30 am	Poster Session B Takedown <i>If you presented a poster in Session B, please pick it up before you check out.</i>		Regents Ballroom A, Embassy Suites

## Evaluation Survey

The evaluation survey for the Nebraska Conference for Undergraduate Women in Mathematics is being conducted by the conference evaluator, Dr. John Sutton, and RMC Research Corporation, located in Denver, Colorado. The survey is intended to help the conference planning committee and evaluators understand what worked well, what participants gained from participating in the conference, and what might be enhanced in order to make any future conferences more useful and beneficial for participants. Questions gather information on your perceptions on whether goals were met, your satisfaction with different facets of the sessions, opportunities to network, conference logistics, what you were able to take away from the conference, and your recommendations.



The survey does not collect identifying information. You will be asked to create a unique number that will only be used to track responses. Data from the survey will be seen by conference organizers and the conference evaluators, and may be used to plan future conferences. The information collected will be incorporated into conference reports, which will be publicly available. However, no individual identifying information will be published in any reports.

An email message will be forthcoming from the external evaluation team with a link to the survey. However, if you wish to take the survey sooner, please feel free to enter the following URL into your web browser or scan the QR code. Thanks for your consideration and participation in the conference evaluation survey.

<https://www.surveymonkey.com/r/NCUWM2016>