

Friday, February 3, 2017

Time	Event	Location
1:00 pm – 3:15 pm	Registration, Snacks & Campus Tours <i>Snacks will be provided. Campus tours meet in the lobby from 2:30 pm to 3:30 pm.</i>	Atrium and Lobby, Embassy Suites
3:40 pm – 6:05 pm	Conference Opening Session Glenn Ledder, Professor of Mathematics and Chair of NCUWM, University of Nebraska-Lincoln Laurie Bellows, Acting Dean of Graduate Studies, University of Nebraska-Lincoln Tom Marley, Professor and Chair, Department of Mathematics, University of Nebraska-Lincoln <hr/> 1st Plenary Talk: <i>From Music to Mathematics to Medicine: One Woman's Journey</i> Ami Radunskaya, Pomona College, Claremont, CA <hr/> Panel Discussion: <i>Choosing a Mathematics Graduate Program</i> Moderator: Nathan Wakefield, University of Nebraska-Lincoln Panelists: Jennifer Iglesias, Carnegie Mellon University Lara Ismert, University of Nebraska-Lincoln Megan Leary, University of Oklahoma Grace McClurkin, University of Tennessee, Knoxville Leanne Merrill, University of Oregon Marissa Renardy, The Ohio State University	Auditorium Second Floor, Nebraska Union
7:00 pm	Banquet & Panel Discussion: <i>Random Bits of Advice</i> Moderator: Judy Walker, University of Nebraska-Lincoln Panelists: Syvillia Averett, College of Coastal Georgia Courtney Gibbons, Hamilton College Ami Radunskaya, Pomona College, Claremont, CA Brooke Shipley, University of Illinois at Chicago	Regents Ballroom BCDEF, Embassy Suites

Saturday, February 4, 2017

Time	Event	Location
7:00 am – 8:00 am	Breakfast <i>Poster presenters in Session A should set up their posters at this time in Regents Ballroom A. T-pins will be provided.</i>	Atrium, Embassy Suites
Session 1 – Presentations by Undergraduate Students		
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites
8:10 am – 8:25 am	<i>Simulating Chlorophyll Concentration and Forecasting Algae Blooms</i> Mackenzie Jones, University of Akron	<i>Calculating the Expected Number of Monochromatic Components in Graphs</i> Natalie Canuteson, William Jewell College
8:30 am – 8:45 am	<i>New Metrics of Economic Inequality</i> Tasha Boland and Shantel Silva, Villanova University	<i>Dual Hamiltonian Graph Classes</i> Melissa Flynn, University of Mississippi
8:50 am – 9:05 am	<i>ODE and PDE Models for Traffic Flow</i> Sichen Li, Pennsylvania State University	<i>Quasi-Crowns</i> Myra Garlid and Sarah Stark, University of Minnesota Duluth
9:10 am – 9:25 am	<i>Determining Developer Debugging Behavior from Eye Gazes</i> Jenna Wise, Youngstown State University	<i>Hexagonal Mosaic Knots</i> Selina Foster, Westminster College
9:30 am – 9:45 am	<i>Predicting Network Connectivity Based on Neural Connections</i> Samantha Moore, University of Northern Colorado	<i>Turan Numbers of Vertex-disjoint Cliques in r-partite Graphs</i> Anna Schenfisch, University of Wyoming
9:50 am – 10:50 am	Panel Discussion: <i>Careers Using Mathematics</i> Moderator: Jim Lewis, University of Nebraska-Lincoln and National Science Foundation Panelists: Sellenne Bañuelos, California State University, Channel Islands Tracy Bohaboj, Duncan Aviation Alyssa Gottshall, NSA Sarah Powers, Oak Ridge National Laboratories Sarah Reznikoff, Kansas State University Gail Towne, Bank of the West	Regents Ballroom BC, Embassy Suites

Time	Event	Location
10:50 am – 11:15 am	Conference Photo <i>If you did not sign a photo release statement, please do not participate in the group photo.</i>	Outside (if bad weather: in Atrium, Embassy Suites)
Session 2 – Presentations by Undergraduate Students		
	Regents Ballroom- B Embassy Suites	Regents Ballroom - C Embassy Suites
11:15 am – 11:30 am	<i>Mathematical Modeling in Cheerleading</i> Carrie Wintle, University of South Dakota	<i>A Radically Simple State Sum Invariant for Complex n-manifolds</i> Camille Felton, University of Wisconsin-Platteville
11:35 am – 11:50 am	<i>Modeling Pioneer Plant Populations in the Monteverde Cloud Forest</i> Sarah Petersen, Hope College	<i>Classification of Numerical Sequences Originating from Recursive Polynomial Sequences</i> Michelle Haver, Ohio Northern University, and Kathleen Lee, Whittier College
11:55 am – 12:10 pm	<i>Modeling the BZ Reaction with Ordinary Differential Equations</i> Shana Havenridge, Doane University	<i>A Class of Gnomons</i> Caroline Bang, St. Cloud State University
12:15 pm – 12:30 pm	<i>Modeling a Freeform Surface for Illuminating Mark Rothko's Green on Blue</i> Jessica Steidle, State University of New York at Geneseo	<i>Divisibility by Powers of 2 in Pascal's Triangle</i> Desiree Domini and Devon Johnson, Pacific Lutheran University
12:40 pm – 2:00 pm	Lunch for Undergraduates 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
	Professionals' Development Luncheon <i>Meal choice was selected in online registration.</i>	Atrium, Embassy Suites
2:00 pm – 3:00 pm	Poster Session A <i>Poster presenters will be available to discuss their posters.</i>	Regents Ballroom A, Embassy Suites
3:10 pm – 4:05 pm	2nd Plenary Talk: A Lincoln-Chicago Round Trip via Algebraic Topology Brooke Shipley, University of Illinois at Chicago	Regents Ballroom BC, Embassy Suites

4:15 pm – 4:25 pm	Snack Break	Pre-Convention Area, Embassy Suites	
Session 3 – Presentations by Undergraduate Students			
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - F Embassy Suites
4:30 pm – 4:45 pm	<i>Change-point Detection Methods for Body-Worn Video</i> Stephanie Allen, State University of New York at Geneseo, and Ye Ye, University of California, Los Angeles	<i>Chronology of Epidemics in Aggregated Temporal Networks</i> Andrea Allen, Oberlin College	<i>Mixing Times for the Generalized Rook's Walk</i> Ana Wright, Willamette University, and Renjun Zhu, University of California, Berkeley
4:50 pm – 5:05 pm	<i>Reverse Engineering Functional Brain Networks from fMRI Data Using Probabilistic Boolean Networks</i> Tiffany Jann, University of California, Berkeley	<i>Expansions on "A Game of Edge Removal on Graphs"</i> Alisa Ediger, Tabor College; Jennifer Moon, Grand Valley State University; and Lyndsey Wong, University of La Verne	<i>Minimal Packings of Double Hexagon Tiles on Pseudo-Rectangular Boards</i> Bethany Baker, Coe College
5:10 pm – 5:25 pm	<i>Comparisons Between Mathematical Models and Experiments of Waves on Deep Water</i> Isabelle Butterfield, Seattle University	<i>Cutting up a Higher Dimensional Donut: 3-Torus Graph Embeddings</i> Rachel Barnett, Rutgers University-New Brunswick, and Rose Johnson-Leiva, Quest University Canada	<i>A Game of Chance Inspired by Othello</i> Alexandria Medeck, Northern Arizona University
5:35 pm – 6:15 pm	Breakout Session 1 <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. If you would like to attend different breakouts, please come to the conference registration desk to switch your tickets with any extras that are available.</i>	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, Atrium, Embassy Suites	
6:20 pm – 7:00 pm	Breakout Session 2 <i>See notes for Breakout Session 1.</i>	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, Embassy Suites	
7:00 pm – 7:15 pm	Poster Session A Takedown <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	Pizza Dinner <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
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Sunday, February 5, 2017

Please note: Check-out time for the hotel is 1 p.m. 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.

Time	Event	Location	
7:00 am – 8:00 am	Breakfast <i>Poster presenters in Session B should set up their posters at this time in Regents Ballroom A. T-pins will be provided.</i>	Atrium, Embassy Suites	
Session 4 – Presentations by Undergraduate Students			
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - EF Embassy Suites
8:10 am – 8:25 am	<i>The Monty Hall Problem Classical and Quantum</i> Aixin Li, Denison University	<i>Modulus of Spanning Trees and Epidemic Spreading</i> Heather Heier, Kansas State University	<i>Knowledge Spaces: The Mathematics Behind Assessment and Learning</i> Qingci An, University of Illinois at Urbana-Champaign
8:30 am – 8:45 am	<i>A Mathematical Model for Copper Homeostasis in Pseudomonas aeruginosa</i> Brianna Kozemzak, Saint Mary's College, Notre Dame	<i>A Graph-Theoretic Approach to Predicting the NFL Playoff Results</i> Sara Myers, University of Scranton	<i>Analyzing Underlying Structures of Pedagogical Methods</i> Kallie Simpson, Slippery Rock University
8:55 am – 9:35 am	Breakout Session 3 <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. If you would like to attend different breakouts, please come to the conference registration desk to switch your tickets with any extras that are available.</i>	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, Atrium, Embassy Suites	

9:35 am – 10:15 am	Poster Session 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>Ballast Cleaning Scheduling Optimization</i> Meghan Stuart, University of Tennessee	<i>Domination in the Hierarchical Product and Vizing's Conjecture</i> Shriya Nagpal, Trinity College	<i>Approximating Roots of Polynomials by Modifying an Ancient Diophantine Technique</i> Courtney Kunselman, United States Air Force Academy
10:40 am – 10:55 am	<i>A Complete Eigensolution of the Multiple-Urn Ehrenfest Model</i> Jacquelyn Combellick, Metropolitan State University of Denver	<i>Small Graphs with Generalized Quaternion Automorphism Group</i> Lillian Webster, Grinnell College	<i>A Voting Method for Multiple Candidates</i> Catherine Godfrey, University of Houston
11:00 am – 11:10 am	Closing Remarks 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
By 1:00 pm	Check-out Time for Hotel		Lobby, 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 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/NCUWM2017>