Friday, January 23, 2015

Time	Event	Location
1:00 pm – 3:15 pm	**Registration, Snacks & Campus Tours** *Snacks will be provided. Campus tours meet in the lobby from 3:00 pm to 3:30 pm.*	Atrium and Lobby, Embassy Suites

3:40 pm – 6:05 pm	**Conference Opening Session**
	  Christine Kelley, Associate Professor of Mathematics and Co-Chair of NCUWM, University of Nebraska-Lincoln
	  Joseph Francisco, Dean, College of Arts & Sciences, University of Nebraska-Lincoln
	  Judy Walker, Professor and Chair, Department of Mathematics, University of Nebraska-Lincoln
	
	1st Plenary Talk: *Twists and Turns in my Life*
	  Maria Klawe, Harvey Mudd College
	
	Panel Discussion: *Careers Using Mathematics*
	Moderator:
	  Judy Walker, University of Nebraska-Lincoln
	Panelists:
	  Lynn Apfel, Department of Defense
	  Alethea Barbaro, Case Western Reserve University
	  Emily Price, Microsoft Xbox Live
	  Julia Read-LaBelle, Nike, Inc.
	  Talitha Washington, Howard University
		Auditorium Second Floor, Nebraska Union

7:00 pm	**Banquet & Panel Discussion:**
	Random Bits of Advice
	Moderator:
	  Yvonne Lai, University of Nebraska-Lincoln
	Panelists:
	  Stephanie Fitchett, Neptune and Company, Inc.
	  Maria Klawe, Harvey Mudd College
	  Karen E. Smith, University of Michigan
	  Lola Thompson, Oberlin College
		Regents Ballroom BCDEF, Embassy Suites

Saturday, January 24, 2015

Time	Event			Location
7:00 am – 8:00 am	Breakfast *Poster presenters in Session A should set up their posters at this time in Regents Ballroom A. Velcro tape will be provided.*			Atrium, Embassy Suites
	Session 1 – Presentations by Undergraduate Students			
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - F Embassy Suites	
8:10 am – 8:25 am	*Distance-2 Maximum Minimal Domination in a Grid* Jerez Chen, Furman University	*Computing Čech Cohomology of S^n and a Genus-n Surface* Nicole Gallagher and Samantha Greenidge, Iona College	*Bootstrap Methods for 3-Dimensional Rotational Data* L. Katie Gerdts, University of Wisconsin–La Crosse	
8:30 am – 8:45 am	*Self-stabilization under Minimal Liar's Domination for Path Graphs* Rebecca Heinen, North Central College	*The Frobenius Number of Balanced Numerical Semigroups* Rachel Eaton, United States Air Force Academy	*Optimizing Motion Correction and Spatial Smoothing Parameters for Preprocessing fMRI Brain Images* Alessandra Mitchell, Slippery Rock University	
8:50 am – 9:05 am	*Realizability of Graphs* Candace Bethea, Washington and Lee University	*Omega Values of the Generators of Certain Primitive Numerical Monoids* Jillian Parker, Sam Houston State University	*Fishing for tests: What is Fisher's Exact Test good for and how can it be made better?* Grace Chester and Katelyn Gutteridge, Missouri Western State University	
9:10 am – 9:25 am	*Prime Vertex Labelings of Unicyclic Graphs* Briahna Preston and Alyssa Whittemore, Northern Arizona University	*Leamer Monoids and the Huneke-Wiegand Conjecture* Sara Stover, Mercer University	*Optimization of Intensity-Modulated Radiation Therapy with Linear Programming Techniques* Marina Massaro, SUNY Geneseo	
9:30 am – 9:45 am	*The 6 Degrees of Separation* Amelia Henriksen, Brigham Young University	*Searching for Complex Pisot Numbers and Newman Polynomial Representatives* Spencer Saunders, Regent University	*Speech Intelligibility Index Model: A Key Aspect to a Child's Development of Speech and Language* Melissa Jay, Colorado College and Katelyn Zumpf, North Central College	

Time	Event	Location
9:50 am – 10:50 am	**Panel Discussion:** *Choosing a Mathematics Graduate Program* **Moderator:** Mark Walker, University of Nebraska-Lincoln **Panelists:** Susanne Sindi, University of California, Merced Michelle Delcourt, University of Illinois at Urbana-Champaign Anne M. Ho, Colorado State University Katie Kochalski, University of Virginia Miriam Kuzbary, Rice University Kat Shultis, University of Nebraska-Lincoln Cindy Tsang, University of California, Santa Barbara	Regents Ballroom BC, Embassy Suites
10:50 am – 11:15 am	**Conference Photo** *If you did not sign a photo release statement, please do not participate in the group photo.*	Outside (if bad weather: in Atrium, Embassy Suites)

	Session 2 – Presentations by Undergraduate Students		
	Regents Ballroom- B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - F Embassy Suites
11:15 am – 11:30 am	*Growth Functions of Finitely Generated Algebras* Laura Petto, Bowdoin College	*Numerical Techniques of Integration for Volumes of Revolution* Robin Belton, Kenyon College	*Modeling Traffic at an Intersection* Saniita FaSennatao and Kaleigh Mulkey, Kennesaw State University
11:35 am – 11:50 am	*Continuity Properties of the Modulus Function of Walk Families* Natalie Wiens, Tabor College	*Two Novel Approaches for Learning Near-Isometric Linear Embeddings* Qi Yang, University of Southern California	*A Model for Transport in Stereocilia* China Mauck, Grinnell College
11:55 am – 12:10 pm	*The Total Acquisition Number of the Randomly Weighted Path* Elizabeth Kelley, Harvey Mudd College	*Analysis of the Finite Element Method and the Discrete Maximum Principle* Cassidy Krause, University of Wisconsin–Platteville	*Modeling Cell Movement* Jessica Leete, Brigham Young University
12:15 pm – 12:30 pm	*Exponential Random Graph Models Under Measurement Error* Zoe Rehnberg, Washington University in St. Louis	*Behavior of Soliton Solutions to the Korteweg de Vries Equation* Erica Johnson, The University of the Incarnate Word	*Modeling Fluid Flow Induced by* C. elegans *Swimming at Low Reynolds Number* Megan Sorenson, Concordia University Irvine

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
	Faculty Professional Development Luncheon *Meal choice was selected in online registration.*	Atrium, Embassy Suites
2:00 pm – 3:00 pm	**Poster Session A** *Poster presenters will be available to discuss their posters.*	Regents Ballroom A, Embassy Suites
3:10 pm – 4:05 pm	**2nd Plenary Talk:** *A Personal Journey Towards Mathematics* Karen E. Smith, University of Michigan	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	*Combinatorics of k-Interval Cospeciation for Cophylogeny* Jane Coons, SUNY Geneseo	*Piecewise-Linear Pseudodiagrams* Molly Durava and Kelleigh Kuehl, North Central College	*Visualizing Dessins Dénfants* Mary Kemp, Occidental College
4:50 pm – 5:05 pm	*Tight Frame Structure* Rachel Domagalski, Central Michigan University	*Grid Diagrams and Permutations for Knots* Su-Jin Lim, Grinnell College	*Modeling a Three-Species Predator-Prey Ecosystem* Melania Meyer, College of Saint Benedict
5:10 pm – 5:25 pm	*Economical Extremal Hypergraphs for the Erdos-Selfridge Theorem* Emily Heath, Occidental College	*The Kauffman Bracket for Virtual Singular Links* Thoa Tran, California State University, Fresno	*The Effect of Prey Dispersal on a Two-Patch Predator-Prey System* Victoria Kelley, James Madison University; Julie Richardson, Smith College; and Emma Talis, Marist College

5:35 pm – 6:15 pm	**Breakout Session 1** *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.**	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	**Breakout Session 2** *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.**	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** *If you presented a poster in Session A, please pick it up before the Pizza Dinner.*	Regents Ballroom A, Embassy Suites
7:15 pm	**Pizza Dinner** *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.*	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 25, 2015

Time	Event	Location
7:00 am – 8:00 am	**Breakfast** *Poster presenters in Session B should set up their posters at this time in Regents Ballroom A. Velcro tape will be provided.*	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	*Orbits of Generalized Fibonacci Sequences with Complex Coefficients* Katharine Ahrens, Ithaca College	*A New Look at Apollonian Circle Packings* Isabel Corona, Metropolitan State University of Denver and Carolynn Johnson, Middlebury College	*Triphos: An Alternative Coordinate System* Paula Egging, Benedictine College
8:30 am – 8:45 am	*Knight's tours on boards with odd dimensions* Stephanie DeGraaf and Elizabeth Doebel, Iowa State University	*Equal Circle Packing on a Square Flat Klein Bottle* Julia Dandurand, California State University, Northridge	*Brownian Motion in the Complex Plane* Elizabeth Greco, Kenyon College

Time	Event	Location
8:55 am – 9:35 am	**Breakout Session 3** *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.**	Alumni Room, Regents D, E or F, Chancellor's Rooms 1, 2, 3, Embassy Restaurant, P Street Dining Area, Embassy Suites
9:35 am – 10:15 am	**Poster Session B** *Poster presenters will be available to discuss their posters. Snacks available at this time.*	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	*The Geometry of Cubic Polynomials* Michelle Gunzel, University of Wisconsin–Platteville	*Classifying Knots in Open Chains with Random Equilateral Polygon Closures* Nicole Lopez and Madeline Shogren, University of St. Thomas	*Modeling the Semi-Permeability of the Limbs of the Kidneys* Katie Sipes, James Madison University
10:40 am – 10:55 am	*Environmental Remote Sensing, Flux Towers, and My Role in the EcoSpec Project* Maureen Salisbury, Coe College	*Colored Unlinking* Natalie DuBois, SUNY Geneseo	*Mathematical Modeling of Blood Coagulation* Joana Perdomo, Harvey Mudd College
11:00 am – 11:15 am	*Site-of-Origin Prediction for Neuroendocrine Tumors* Saniya Khullar, Georgetown University	*Alexander- and Markov-type Theorems for Virtual Singular Links* Sarah McGahan, California State University, Fresno	*Analysis of Spectral Variation in Background Gamma Radiation at U.S. Ports of Entry* Kaylee Homolka, University of Nebraska–Lincoln
11:20 am – 11:30 am	Closing Remarks Christine Kelley, University of Nebraska-Lincoln Glenn Ledder, University of Nebraska-Lincoln		Regents Ballroom BC, Embassy Suites
11:30 am – 11:40 am	Poster Session B Takedown *If you presented a poster in Session B, please pick it up before you check out.*		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/s/NCUWM2015