

Friday, January 25, 2013

Time	Event	Location
1:00 pm – 3:15 pm	Registration & Snacks <i>Snacks will be provided.</i>	Pre-Convention Area, Embassy Suites
3:40 pm – 6:05 pm	Conference Opening Session Christine Kelley, University of Nebraska-Lincoln Prem Paul, Vice-Chancellor Research & Economic Development, University of Nebraska-Lincoln Judy Walker, University of Nebraska-Lincoln <hr/> 1 st Plenary Talk: <i>What do mathematicians do outside academia?</i> Cathy O’Neil, Independent Consultant <hr/> Panel Discussion: <i>Careers using Mathematics</i> Moderator: Judy Walker, University of Nebraska-Lincoln Panelists: Andrea Hairston, U.S. Dept. of Defense/NSA Jillian McLeod, U.S. Coast Guard Academy Carol Meyers, Lawrence Livermore National Lab Emily Price, Microsoft Xbox LIVE Brandilyn Stigler, Southern Methodist University	Auditorium Second Floor, Nebraska Union
7:00 pm	Banquet & Panel Discussion: <i>Random Bits of Advice</i> Moderator: Carina Curto, University of Nebraska-Lincoln Panelists: Sarah Hews, Hampshire College Cathy O’Neil, Independent Consultant Kate Ponto, University of Kentucky Rekha Thomas, University of Washington, Seattle	Regents Ballroom BCDEF, Embassy Suites

Saturday, January 26, 2013

Time	Event	Location
7:00 am – 8:05 am	Breakfast <i>Poster presenters should set up their posters at this time in Regents Ballroom A. Velcro tape 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>Modeling Cancer Stem Cell and Non-Stem Cancer Cell Population Growth</i> Justina Cline, Coe College	<i>Minimum Exponential Dominating Sets of Connecting Cycles</i> Amanda Bright, Westminster College
8:30 am – 8:45 am	<i>Modeling Mucociliary Clearance</i> Kara Karpman, Duke University	<i>T-segment Intersection Graphs</i> Kathleen Daly, Lewis & Clark College
8:50 am – 9:05 am	<i>Using Eye-Gazing Data to Predict Radiologists' Cognitive Behavior during Breast Cancer Screening</i> Shelby Becker, Saint Mary-of-the-Woods College	<i>Realizability of a Critical Portrait</i> Selina Gilbertson, Northern Arizona University
9:10 am – 9:25 am	<i>Mathematical Modeling of Endometriosis</i> Jennifer Dumdie, University of South Dakota	<i>Voltage Assignments for Graph Products</i> Katie McKeon, University of Nebraska-Lincoln
9:30 am – 9:45 am	<i>Modeling Newcastle Disease in Wild Parrots</i> Cassy Hanson, Western Oregon University	<i>Rainbow Coloring</i> Kristen Heaney, La Salle University
9:50 am – 10:50 am	Panel Discussion: <i>Choosing a Mathematics Graduate Program</i> Moderator: Mark Walker, University of Nebraska-Lincoln Panelists: Kim Ayers, Iowa State University Kayla Davis Harville, University of Mississippi Caitlin Leverson, Duke University Haydee Lindo, University of Nebraska-Lincoln Gemma Mason, California Institute of Technology Erica Shannon, University of Colorado Boulder	Regents Ballroom BC, Embassy Suites
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	Regents Ballroom - EF Embassy Suites
11:15 am – 11:30 am	<i>Classifying knots in open chains</i> Elizabeth Annoni, University of St. Thomas Nicole Lopez, University of St. Thomas	<i>Chromatic Number of Intersecting Subgraphs</i> Rachael Osborn, Pittsburg State University	<i>Word Recognition using Wavelet and Fourier Analysis</i> Stephanie Carter, Pacific University Tara Walker, Seattle Pacific University Sarah White, Wartburg College
11:35 am – 11:50 am	<i>Dowker Notations of Knots</i> Katie Sopczynski, Slippery Rock University	<i>A New Graceful Labeling for Pendant Graphs</i> Alessandra Graf, Northern Arizona University	<i>Stability of Traveling-Wave Solutions to the Whitham Equation</i> Keri Kodama, Seattle University
11:55 am – 12:10 pm	<i>An Inequality for an Isosceles Triangle</i> Lara Ismert, Pittsburg State University	<i>Intrinsic Linking in Graphs</i> Cara Nickolaus, Washington University in St. Louis	<i>A Solution to the Model of an Oboe Reed Under the Presence of a Weak Quadratic Nonlinearity</i> Nikki Holtzer, Stetson University
12:15 pm – 12:30 pm	<i>On the Folding of L-shapes</i> Alice Nadeau, Grinnell College	<i>Perfect Graphs: An Application and a Conjecture</i> Amanda Russo, La Salle University	<i>Static Two-Dimensional Sponge Deformation</i> Brianna Lynn, George Mason University

12:40 pm – 2:00 pm

Lunch

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 Lunch Program

Atrium,
Embassy Suites

2:00 pm – 3:00 pm

Poster Session

*Poster presenters will be available to discuss their posters.*Regents Ballroom A,
Embassy Suites

3:10 pm – 4:05 pm

2nd Plenary Talk:

Polynomial and Semidefinite Optimization
Rekha Thomas, University of Washington, Seattle

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 - EF Embassy Suites
4:35 pm – 4:50 pm	<i>NCAA Division III Cross Country Championship Meet Selection</i> Alyce Eaton, Grinnell College	<i>Incongruent Restricted Disjoint Covering Systems (IRDCS)</i> Bridget Toomey, Grinnell College	<i>Generating Pythagorean Triples in the Quaternions</i> Amy Been, University of Nebraska-Lincoln
4:55 pm – 5:10 pm	<i>Optimal Digital Elevation Model Estimation</i> Catherine Watkins, Johns Hopkins University	<i>Construction of Generalized Minimum Aberration Designs from Hadamard Matrices of size 32</i> Laura White, Arkansas State University	<i>Properties of Pythagorean triples over the integerquaternions and a partial parameterization</i> Claire Merriman, Vanderbilt University

5:20 pm – 6 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.</i>	Alumni Room Regents D, E or F Chancellor's Room 1, 2, 3, Embassy Suites
6:10 pm – 6:50 pm	Breakout Session 2 <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.</i>	Alumni Room Regents D, E or F Chancellor's Room 1, 2, 3, Embassy Suites
6:50 pm – 7:00 pm	Poster Takedown <i>If you presented a poster, please pick it up before the Pizza Dinner.</i>	Regents Ballroom A, Embassy Suites
7:15 pm	Pizza Dinner <i>Table assignments for conference guests are featured in your bio packet. Review these assignments to maximize your networking opportunities.</i>	Regents Ballroom BC, Embassy Suites

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 27, 2013

Time	Event	Location		
7:00 am – 8:15 am	Breakfast	Atrium, Embassy Suites		
	Session 4 – Presentations by Undergraduate Students			
		Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - EF Embassy Suites
8:15 am – 8:30 am	<i>Interval-Vector Polytopes</i> Jessica DeSilva, California State University, Stanislaus	<i>Enumerating Unlabeled Trees</i> Erica Gilliland, Butler University	<i>The Mandelbrot Set</i> Alison Schuetz, Hood College	
8:35 am – 8:50 am	<i>The Fixed Points of the Columnar Transposition Cipher</i> Beth Bjorkman, Grand Valley State University	<i>Trees of Irreducible Numerical Semigroups</i> Taryn Laird, Northern Arizona University	<i>Calculus of Variations: Minimizing a Family of Functions</i> JoFawna Reali, California State University, Stanislaus	

9:00 am – 9:50 am	Panel Discussion: <i>Summer Research Opportunities</i> Moderator: Sue Geller, Texas A&M University Panelists: Morgan Cesa, University of Utah Andrea Hairston, U.S. Dept. of Defense/NSA Diane Higgins, IPAM, UCLA Katrina Honigs, University of California, Berkeley	Regents Ballroom BC, Embassy Suites	
9:50 am – 10:00 am	Snack Break	Pre-Convention Area, Embassy Suites	
Session 5 – Presentations by Undergraduate Students			
	Regents Ballroom - B Embassy Suites	Regents Ballroom - C Embassy Suites	Regents Ballroom - EF Embassy Suites
10:00 am – 10:15 am	<i>Assessing the Chaotic Nature of Interstellar Magnetic Fields</i> Lindsay Grayson, Northern Kentucky University	<i>Magic Cayley-Sudoku Tables</i> Rosanna Mersereau, Western Oregon University	<i>Common Values of Polynomials Over Finite Fields</i> Hanna Astephan, University of Michigan
10:20 am – 10:35 am	<i>The Effect of Experiment Design on Network Inference</i> Camila Reyes, California State University, Stanislaus	<i>Data Mining General Education Course Assessments</i> Lauren Akin, Whitney Turner & Leah Wright, Freed-Hardeman University	<i>Algebra in Flatland</i> Connie Dennis, Shawnee State University Cassie Stamper, Shawnee State University
10:40 am – 10:55 am	<i>The “Bigger Half”: Examining Fair Division</i> Megan Chambers, Youngstown State University	<i>ExploreU@MMU</i> Riley Banes, Clara Camarillo & Lauren Hoth, Mount Mercy University	<i>Minimum Modulus Problem</i> Kelsey Houston-Edwards, Reed College
11:00 am – 11:15 am	<i>College Football Rankings</i> Maria Barrell, Furman University Kristina Pardo, Furman University *Abstract is listed in poster abstract booklet	<i>Conceptual Understanding of Integer Operations</i> Natalie Guerra & Megan Rodriguez, Hood College	<i>Number of Solutions to Quadratic Equations Over 2 by 2 Matrices over the Quaternions</i> Diana Oliff, Rutgers University, New Brunswick
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	