

Friday, January 30, 2009

Time	Event	Location
1:00 pm – 3:15 pm	<p>Registration & Snacks</p> <p><i>Snacks and hot beverages will be provided. Campus tours provided by the Office of Graduate Studies will begin at 1:30 pm and occur every half hour, with the last one leaving at 3:00 pm. Tours will conclude at the Nebraska Union.</i></p>	Missouri & Niobrara Room Lower Level, Holiday Inn
3:40 pm	<p>Conference Opening Session</p> <p>Judy Walker, Department of Mathematics, University of Nebraska - Lincoln</p> <p>David Manderscheid, Dean of the College of Arts & Sciences, University of Nebraska – Lincoln</p> <p>Allan Donsig, Department of Mathematics, University of Nebraska – Lincoln</p>	Auditorium Second Floor, Nebraska Union
4:00 pm – 4:45 pm	<p>1st Plenary Talk:</p> <p><i>Feedback Loops in Biology and Climate</i></p> <p>Mary Lou Zeeman, Bowdoin College</p>	Auditorium Second Floor, Nebraska Union
5:00 pm – 6:05 pm	<p>Panel Discussion: <i>Careers using Mathematics</i></p> <p>Moderator: Tina Straley, Mathematical Association of America</p> <p>Panelists: Sun-Yung Alice Chang, Princeton University Chandra Coleman, Mutual of Omaha Carol Meyers, Lawrence Livermore National Lab Ivelisse Rubio, University of Puerto Rico-Río Piedras Michelle Wagner, National Security Agency</p>	Auditorium Second Floor, Nebraska Union
7:00 pm	<p>Banquet & Panel Discussion:</p> <p><i>Random Bits of Advice</i></p> <p>Moderator: Deborah Lockhart, National Science Foundation</p> <p>Panelists: Laura Lynch, University of Nebraska – Lincoln Carol Meyers, Lawrence Livermore National Lab Ivelisse Rubio, University of Puerto Rico-Río Piedras Anusha Sekar, University of Washington Mary Lou Zeeman, Bowdoin College</p>	Lincoln Ballroom Main Level, Holiday Inn

Saturday, January 31, 2009

Time	Event	Location
7:30 am – 8:25 am	Breakfast	Lincoln Ballroom Main Level, Holiday Inn
Session 1 – Presentations by Undergraduate Students		
	Arbor Room Main Level, Holiday Inn	Missouri & Niobrara Room Lower Level, Holiday Inn
		Platte Room Lower Level, Holiday Inn
8:30 am – 8:45 am	<i>Cram on Triangular Boards</i> Sarah Behrens, Coe College	<i>Evaluation of Hypersingular Integrals Using Numerical Methods</i> Sarah Khasawinah, Bryn Mawr College
8:50 am – 9:05 am	<i>Mathematical Literature</i> Kathryn Gravelle, Nazareth C of Rochester	<i>Generating and Breaking Simple CAPTCHAs Using MATLAB</i> Nicole Kingsley, SUNY Geneseo
9:10 am – 9:25 am	<i>Self-Efficacy in Developmental Mathematics</i> Angela Duncan, Arkansas State, Jonesboro	<i>Does the Pyloric Neuron Exhibit Resonance?</i> Karina Aliaga, New Jersey Institute of Technology
9:30 am – 9:45 am	<i>An Examination of the Social Class Backgrounds of California's Mathematics Professors</i> Megan OConnor, Western Michigan U. and Elizabeth Zapata, California State University, Chico	<i>Under the Sea ... the Coastline Will Be</i> Kerensa Gimre, Pacific University
		<i>Wallis' Product</i> Katelynn Kochalski, Canisius College
9:50 – 10:40 am	<p>Panel Discussion: <i>Choosing a Mathematics Graduate Program</i></p> <p>Moderator: Jim Lewis, University of Nebraska – Lincoln</p> <p>Panelists: Julia Eaton, University of Washington Annie Green-Howard, University of North Carolina Melissa Kraus, Purdue University Olena Ostapyuk, Kansas State University Paige Rinker, Dartmouth College Katarzyna Wasilewska, University of Southern California Zahava Wilstein, University of Nebraska - Lincoln</p>	Lincoln Ballroom Main Level, Holiday Inn
10:40 am – 11:10 am	<p>Conference Photo</p> <p><i>If you did not sign a photo release statement, please do not participate in the group photo.</i></p>	Location will be announced at the conclusion of the panel discussion.

Time	Event	Location
	Snack Break	Lower Level, Holiday Inn
	Session 2 – Presentations by Undergraduate Students	
	Arbor Room Main Level, Holiday Inn	Missouri & Niobrara Room Lower Level, Holiday Inn
11:15 am – 11:30 am	<i>Break It Down: Using Wavelets to Analyze Handwritten Letters</i> Ana Burgers, Nebraska Wesleyan U, Laurie de Castro, Gettysburg College, Kati McConville, Westminster College, and Katy Nowak, SUNY Geneseo	<i>From Simple Continued Fractions to Lambda Fractions</i> Shira Hetz, Texas A&M University
11:35 am – 11:50 am	<i>Detecting Forged Signatures Using Wavelet Decomposition</i> Brittany Baker, Saint Michael's College	<i>p-Adic Valuations of Integer Sequences</i> Laine Noble, Tulane University
11:55 am – 12:10 pm	<i>Word Recognition Using Daubechies Wavelets</i> Sage Schissel, Wartburg College	<i>Subsets of the Group Z_{70} with Generating Number 3 and Independence Number 5</i> Jessica Jakositz, Gettysburg College
12:15 pm – 12:30 pm	<i>Voice-Printing Individual Great Horned Owls Using Wavelet Analysis</i> Heather Thomas, Mesa State College	<i>On Generalized Mersenne and Fermat Primes</i> Bette Catherine Putnam, University of Mississippi
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 Program	University Room Main Level, Holiday Inn
2:00 pm – 2:55 pm	2 nd Plenary Talk: <i>How Can You Tell If It Is a Sphere?</i> Sun-Yung Alice Chang, Princeton University	Lincoln Ballroom Main Level, Holiday Inn

Time	Event	Location
Session 3 – Presentations by Undergraduate Students		
	Arbor Room Main Level, Holiday Inn	Missouri & Niobrara Room Lower Level, Holiday Inn
3:00 pm – 3:15 pm	<i>When Are the Real Roots of a Monic Cubic Polynomial Fundamental Units?</i> Claire McCall, University of Montevallo	<i>Paley Graphs: Exploring Transitive Sub-tournaments and Clique Numbers</i> Jennifer Diemunsch, University of Dayton
3:20 pm – 3:25 pm	<i>Polynomial Parametric Curves in Two Dimensions</i> Jolie Roat, Nazareth C. of Rochester	<i>Rotational Flow of Non-Newtonian Fluids: a Viscoelastic Model</i> Christine Bittner, Johns Hopkins University
3:40 pm – 3:55 pm	<i>Strong Reality in Coxeter Groups</i> Amanda Schaeffer, University of Arizona	<i>Rotational Flow of Non-Newtonian Fluids: a Viscoelastic Model</i> Christine Bittner, Johns Hopkins University
3:55 pm – 4:15 pm	Snack Break	Lower Level, Holiday Inn
4:15 pm – 5:05 pm	Panel Discussion: <i>I Know What You Should Do Next Summer</i> Moderator: Richard Rebarber, University of Nebraska - Lincoln Panelists: Deborah Lockhart, National Science Foundation Arunima Ray, SUNY Geneseo Kaelly Simpson, University of Nebraska – Lincoln Tina Straley, Mathematical Association of America Michelle Wagner, National Security Agency	Lincoln Ballroom Main Level, Holiday Inn

Time	Event	Location
5:10 pm – 5:50 pm	Breakout Session 1	
	Lower Level	
	<i>Being A Woman Mathematician From An Underrepresented Group</i>	Executive Board Room
	<i>What is Research?</i>	Missouri & Niobrara Room
	<i>Juggling Career and Life I</i>	Platte Room
	Main Level	
	<i>Fun in Math</i>	Arbor Room
	<i>Careers with a Bachelor's Degree I</i>	University Room
	Second Floor	
<i>Choosing a Graduate School</i>	Suite 209	
<i>Preparing for (Applying to) Graduate School I</i>	Suite 211	
6:00 pm – 6:40 pm	Breakout Session 2	
	Lower Level	
	<i>Careers with a Masters Degree</i>	Executive Board Room
	<i>Preparing for (Applying to) Graduate School II</i>	Missouri & Niobrara Room
	<i>Careers with a Bachelor's Degree III</i>	Platte Room
	Main Level	
	<i>Careers with a Bachelor's Degree II</i>	Arbor Room
	<i>Jumping from a Small College to Graduate School</i>	University Room
	Second Floor	
<i>Graduate School in Math Education</i>	Suite 209	
<i>Juggling Career and Life II</i>	Suite 211	
7:00 pm	Pizza Dinner	Lincoln Ballroom Main Level, Holiday Inn

Sunday, February 1, 2009

Time	Event	Location
7:30 am – 8:15 am	Breakfast Additional space will be available in the University Room.	Arbor Room Main Level, Holiday Inn
Session 4 – Presentations by Undergraduate Students		
	Missouri & Niobrara Room Lower Level, Holiday Inn	Platte Room Lower Level, Holiday Inn
8:15 am – 8:30 am	<i>Orthogonal Art Gallery with Holes</i> Youngju Jo, Illinois Inst. of Technology	<i>Permutation Codes</i> Eteri Svanidze, SUNY Fredonia
8:35 am – 8:50 am	<i>Designing matroids: Discovering the Relationships Between Designs and Matroids Through Geometries</i> Meagan Potter, Pacific University	<i>Interest Rate Swaps</i> Ruttika Joshi, New Jersey Institute of Technology
8:50 am – 9:50 am	Poster Session	Assembly Room Main Level, Holiday Inn
Session 5 – Presentations by Undergraduate Students		
	Missouri & Niobrara Room Lower Level, Holiday Inn	Platte Room Lower Level, Holiday Inn
9:50 am – 10:05 am	<i>An Algorithm for Computing Word Length in Thompson's Group F</i> Susie Kimport, Bowdoin College	<i>Developing Algorithms for the Determination of Relative Peptide Abundances from LC/MS Data</i> Arunima Ray, SUNY Geneseo
10:10 am – 10:25 am	<i>Random Elements in Thompson's Group F</i> Sharon Ulery, Bowdoin College	<i>Using Absorbing Markov Chains to Model Caterpillar Populations Under Different Environmental Conditions</i> Sarah Vodzak, Muhlenberg College
10:30 am – 10:45 am	<i>Using Hyperbolas to Approximate Square Roots</i> Kaylee Sutton, John Carroll University	<i>It's a Coyote-Eat-Deer-Feed-Tick World: A Deterministic Model of Predator-Prey-Parasite Interaction in the Northeast</i> Orianna DeMasi, McGill University
10:50 am – 11:05 am	<i>Robustness and Efficiency of the Theil-Sen Estimator in Simple and Multiple Regressions</i> Cameron Byrum, University of Mississippi	<i>Effects of Plant Biomass, Plant Cover, and Added Nutrients on Orthoptera Abundance Across a Small Grassland Area</i> Sarah Bailey, Heather Buss, Allison Mettler, and Caitlin Spilinek, U of Nebraska-Lincoln
11:10 am – 11:20 am	Closing Remarks John Meakin, Chair of the Department of Mathematics, University of Nebraska - Lincoln	Lincoln Ballroom Main Level, Holiday Inn