Monday, July 28		8:00am-5:00pm	Project NExT Registration
11:00am-5:00pm	Project NExT Registration		1st Floor Lobby Univ. of Wisconsin Lowell Center
	1st Floor Lobby Univ. of Wisconsin Lowell Center	8:15am-5:30pm	Project NExT Workshop (for 2007—2008 and
1:30pm-9:00pm	Project NExT Workshop (for 2008–2009 Fellows)		2008–2009 Fellows) Univ. of Wisconsin
	Univ. of Wisconsin Lowell and Pyle Centers	8:30am-2:30pm	Lowell and Pyle Centers The Madison Tour
			Main Entrance, Concourse Hotel
Tuesday, July 29		9:00am-5:00pm	Part 2: Two Day Short Course
8:00am-5:00pm	Project NExT Registration 1st Floor Lobby		Capital Ballroom B Concourse Hotel
	Univ. of Wisconsin Lowell Center		Game—Theoretic Modeling: Techniques and Applications
8:30am-5:25pm	Project NExT Workshop (for 2008–2009 Fellows)		Michael A. Jones, Montclair State University
	Univ. of Wisconsin Lowell and Pyle Centers	2:00pm-7:00pm	Registration
9:00am-5:00pm	Part 1: Two Day Short Course		Lakeside Commons, Level 1 Monona Terrace
	Capital Ballroom B	2:45pm-4:00pm	CUSAC Meeting
	Concourse Hotel Game—Theoretic Modeling:		Concourse Hotel, Conference Room II
	Techniques and Applications	4:30pm-5:30pm	MAA–PME Student Reception
	Michael A. Jones, Montclair State University		Senate Rooms AB Concourse Hotel
2:00pm-8:00pm	New Governors Orientation	5:30pm-6:45pm	Undergraduate Activity
	Capitol A, Concourse Hotel		Wisconsin Ballroom Concourse Hotel
Wodnosdov II	uly 20		Math JEOPARDY
Wednesday, Ju			John Harris, Furman University
8:00am-5:00pm	MAA Board of Governors Capital AB, Concourse Hotel		Mike Berry, University of Tennessee
			Mike Mossinghoff, Davidson College

Thursday

6:30pm-7:30pm	Opening Reception	9:30am-9:40am	The Guessing Secrets
	Madison Ballroom		Problem: Classical
	Monona Terrace		and Quantum Algorithms
7:30pm-9:30pm	Opening Banquet		Michael Nathanson, St. Mary's College of California
Thursday Jul	Capitol AB Ballroom, Monona Terrace	9:50am-10:05am	Permutation Patterns and Patience Sorting: Sophisticated Combinatorics
Thursday, Jul	<u>•</u>		From a Simple Card Game
8:00am – 4:00pm	Registration		Isaiah Lankham,
	Lakeside Commons Level 1, Monona Terrace		Simpson University
8:30am-9:20am	MAA Invited Address	8:30am-10:30am	Contributed Paper Session
	Ballroom AB, Monona Terrace		Hall Ideas F, Monona Terrace
	Intellectual Need and its Role in Mathematics Instruction		Interesting Topics in History of Mathematics That Enhance the Teaching and
	Guershon Harel, University of		Learning of Mathematics I
	California, San Diego		Daniel Curtin, Northern
8:30am-10:30am	Contributed Paper Session		Kentucky University
	Hall Ideas E, Monona Terrace		Amy Shell–Gellasch, Pacific Lutheran University
	Fascinating Examples from Combinatorics, Discrete Mathematics, and Graph	8:30am-8:40am	Conjectures on Egyptian Fractions
	Theory		Mehdi Radjabalipour, University of Keman
	Suzanne Dorée, Augsburg College	0.450m 0.550m	·
	Nancy Ann Neudauer, Pacific University	8:45am-8:55am	Brain Injury and Mathematical Discovery: The Enigma of Stanislaw
8:30am-8:45am	Applications of Graph		Ulam
	Theory to Conservation Biology		Alexander G. Atwood, Suffolk
	Kay Smith, Saint Olaf College		County Community College
8:50am-9:05am	Equal Circle Packing On a	9:00am-9:10am	Edlin's Enigma
0.30am-7.03am	Square Torus		Anne E. Edlin, La Salle University
	William Dickinson, Grand Valley State University	9:15am-9:25am	Maya Mathematical Presentation
9:10am-9:25am	Solving Instant Insanity Without Going Insane		Doy O. Hollman, Lipscomb University
	Rachel Marie Robertson, Michigan Technological University		Especial office sity

9:30am-9:40am	My Mathematician is Better than Your Mathematician	9:15am-9:25am	Math Chats: Engaging Students in Mathematics Outside the Classroom
	Sarah Mabrouk, Framingham State University		Robin Lydiann Anderson, Southwestern Illinois College
9:45am-9:55am	Positive Impacts From Using the History of Mathematics When Teaching Students With Weak Mathematical Backgrounds	9:30am-9:40am	Mathematics Skills Assessment and Training in Freshman Engineering Courses
	Ciaran Mac an Bhaird, National University of Ireland, Maynooth		Janet Marie McShane, Phillip MIsna, Jennifer Maynard,
10:00am-10:10am	The Calculation of Galois Groups By Classical		Chester Ismay, and Sarah Brown, Northern Arizona University
	Methods With the Aid of Mathematica	9:45am-9:55am	Lessons Learned From a Calculus Redesign Project
	Matt David Lunsford, Union University		Jennifer McLoud–Mann, University of Texas at Tyler
10:15am-10:30am	The Role of History of Mathematics	10:00am-10:10am	Google's PageRank for Beginners: A Directed Graph
	Dr. Pragati, Jain, SIMS, Indore		Example for Liberal Arts Math Courses
8:30am-10:30am	General Contributed Paper Session I		Rebecca S. Wills, Roanoke College
	Meeting Room O Monona Terrace	10:15am-10:25am	Frontloading Statistical
	Sarah Mabrouk, Framingham State College		Inference Topics in an Introductory Statistics Course
8:30am-8:40am	Redesigning Developmental Math to		Kate McGivney, Shippensburg University
	More Efficient and	8:30am-10:30am	,
	Effective	8:30am-10:30am	MAA Student Paper
	Effective Sue Beck, Morehead State University	8:30am - 10:30am	MAA Student Paper Session (1) Meeting Room L Monona Terrace
8:45am–8:55am	Sue Beck, Morehead State University Report on Progress in Developmental Algebra at	8:30am-10:30am 8:30am-10:30am	Session (1) Meeting Room L
8:45am–8:55am	Sue Beck, Morehead State University Report on Progress in Developmental Algebra at Lindsey Wilson College Scott Dillery, Lindsey		Session (1) Meeting Room L Monona Terrace MAA Student Paper
8:45am-8:55am 9:00am-9:10am	Sue Beck, Morehead State University Report on Progress in Developmental Algebra at Lindsey Wilson College		Session (1) Meeting Room L Monona Terrace MAA Student Paper Session (2) Meeting Room M Monona Terrace MAA Student Paper
	Sue Beck, Morehead State University Report on Progress in Developmental Algebra at Lindsey Wilson College Scott Dillery, Lindsey Wilson College	8:30am-10:30am	Session (1) Meeting Room L Monona Terrace MAA Student Paper Session (2) Meeting Room M Monona Terrace

8:30am-10:30am	MAA Student Paper Session (4)	9:30am-10:30am	Contributed Paper Session
	Meeting Room Q, Monona Terrace		Hall Ideas I, Monona Terrace
8:30am-10:30am	MAA Student Paper Session (5)		Teaching Mathematics and Statistics Through Current
	Meeting Room R, Monona Terrace		Civic Issues
9:00am-10:20am	Panels and Other Sessions		Rikki Wagstrom and Cynthia Kaus,
	Ballroom C, Monona Terrace		Metropolitan State University
	The Role of Quantitative Literacy Centers in Supporting Students and Faculty	9:30am-9:45am	Developing "Mathematics and Social Justice." A Course Which Incorporates Social
	Maura Mast, University of Massachusetts, Boston		Justice Issues and Service— Learning Projects
9:00am-5:00pm	Art Exhibit		Lisa Marano, West Chester
•	Exhibit Hall B		University of Pennsylvania
	Monona Terrace	9:50am-10:05am	Global Consciousness, Social Responsibility, Ethical Awareness (and MATH!) at
9:00am-5:00pm	Exhibits and Book Sales		
	Exhibit Hall B Monona Terrace		Westminster
9:00am-5:00pm	Undergraduate Activities		Bradford Bynum, Westminster College
	Exhibit Hall B, Monona Terrace Student Hospitality Center	10:10am-10:25am	Integrating Service Learning Projects in
	Richard and Araceli Neal, American Society for the Communications of Math		a Differential Equations Course
			John Zobitz, Augsburg College
9:30am-10:20am	MAA Invited Address Ballroom AB, Monona Terrace	10:30am-11:20am	Earle R. Hedrick Lecture Series
	Ecological and Evolutionary		Ballroom AB, Monona Terrace
	Consequences of Species		
	Interactions		Lecture 1 Mathematics Meets Art, Puzzles, and
	Claudia Neuhauser,		Magic
	University of Minnesota		Erik Demaine, Massachusetts Institute of Technology
		1:00pm-1:50pm	MAA Lecture for Students
			Ballroom A, Monona Terrace
			Sudoku: Questions, Variations, and Research
			Laura Taalman, James Madison University
		MathF	est 2008 Schedule of Events

1:00pm-2:20pm	Panels and Other Sessions Lecture Hall, Monona Terrace	2:20pm-2:40pm	Teaching Mathematics to Biology Majors Using the
	Writing for MAA Periodicals		Scientific Method
	Lowell Beineke, Indiana University— Purdue University Fort Wayno and Editor The		James Fulton and Linda Sabatino, Suffolk County Community College
	Fort Wayne and Editor, The College Mathematics Journal	2:40pm-3:00pm	Discussion on Integrating Biology and Mathematics
	Ivars Peterson, MAA Director of Publications for Journals and Communications		James Fulton, Suffolk County Community College
1:00pm-3:00pm	Contributed Paper Session		Timothy Comar, Benedictine University
	Ballroom D, Monona Terrace	1:00pm-3:00pm	Contributed Paper Session
	Integrating Biology and		Hall Ideas E, Monona Terrace
	Mathematics		Advances in Recreational Mathematics
	James Fulton, Suffolk County Community College		Paul R. Coe and Kristen
	Timothy Comar, Benedictine University		Schemmerhorn, Dominican University
1:00pm-1:20pm	Analyzing the Interaction of Species: Game Theory in a Calculus Course	1:00pm-1:15pm	Problems From the Pages of the Journal of Recreational Mathematics That are Still Unsolved
	Lee Stemkoski, Adelphi University		Charles Ashbacher, Mount Mercy College
1:20pm-1:40pm	Biofuels, <i>Useful</i> Arithmetic and Embodied Energy	1:20pm-1:35pm	Combinatorics, Probabilities, and the NCAA Basketball
	Ben Fusaro, Florida State University		Tournaments
1:40pm-2:00pm	Biology, Discrete		Matthew Menzel, Marietta College
	Mathematics and Theoretical Computer Science	1:40pm-1:55pm	Re—Distributing and
	Dr. Atabong Timothy Agendia and Dr. Awunglefack Dominic		Reconstruction Probabilities in Horse Races, Voting Theory, and Poker
2:00pm-2:20pm	Fobellah, BaaP Systems Using Knot Theory to Model		Michael Jones and John Stevens, Montclair State University
	DNA: An Undergraduate Research Project	2:00pm-2:15pm	Voting Off: How Bad Can It Be?
	William Schellhorn,		
	Simpson College		Dylan Helliwell, Seattle University

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2:20pm-2:35pm	Mathematical Thinking With Magic Squares	2:40pm-3:00pm	The Homeless Average Age 9? Examining a Bad Statistic
	Hossein Behforooz, Utica College		Adam Molnar,
2:40pm-2:55pm	Stuck in a Sudoku		Bellarmine University
	Helen Schroeder, University of Wisconsin – Stout	1:00pm-3:00pm	Minicourse 1 Hall Ideas G, Monona Terrace
1:00pm-3:00pm	Contributed Paper Session Hall Ideas I, Monona Terrace		A Game Theory Path to Quantitative Literacy
	Teaching Mathematics and Statistics Through Current		Rick Gillman, Valparaiso University
	Civic Issues		David Housman, Goshen College
	Rikki Wagstrom and Cynthia Kaus, Metropolitan State University	1:00pm-3:00pm	General Contributed Paper Session 2
1:00pm-1:20pm	Authentic Discovery Learning Projects in		Meeting Room O Monona Terrace
	Statistics with Constructs From Environmental and		Sarah Mabrouk, Framingham State College
	Social Science Disciplines Diana Spence and Robb Sin, North Georgia College & State University	1:00pm-1:10pm	Mathematical Myths: Some Interesting Facts and Fictions
1:20pm-1:40pm	The Gini Coefficient: Measuring Inequality in Resource Allocation		Linda Becerra and Ron Barnes, University of Houston— Downtown
	Michael Catalano, Dakota Wesleyan University	1:15pm-1:25pm	Resourceful Session Before a Developmental Math Test
1:40pm-2:00pm	Confounder Influence on Cases Attributed		Gowribalan Ananda Vamadeva, University of Cincinnati
	Milo Schield, W. M. Keck Statistical Literacy Project	1:30pm-1:40pm	Developing Mathematical Thinkers — Laying the
2:00pm-2:20pm	Equity: Not Just a Goal, But a Vehicle in Introductory		Foundation for Successful Math Majors
	Statistics		Trae Holcomb, United States Air Force Academy
	Lawrence Lesser, The University of Texas at El Paso	1:45pm-1:55pm	The "No WAY!" Moment in
2:20pm-2:40pm	College Algebra in Context:	1.43рш 1.33рш	Mathematics
	A Report and Examples From an NSF Project		Mike Krebs, California State University, Los Angeles
	Michael Catalano, Thomas Pfaff and Tanya Leise, Dakota Wesleyan University		

2:00pm-2:10pm	Visual Mathematics for the Visually Impaired: Reflections and Strategies	2:00pm-2:30pm	High Points in the Encyclopedia of Triangle Centers
	Mandi Shea Maxwell, Trinity Christian College		Clark Kimberling, University of Evansville
2:15pm-2:25pm	The Ultimate Class Projectand No Grade!	2:30pm-3:00pm	Special Quadrilaterals and Special Conics
	Terry Jo Leiterman, St. Norbert College		James L. Parish, Southern Illinois University at Edwardsville
2:30pm-2:40pm	The Mathematics of Games as Experiential Learning	3:00pm-3:30pm	Algebraic Ramifications in Triangle Geometry
	Jacob Robert Heidenreich, Loras College		Steve Sigur, The Paideia School, Atlanta, Georgia
2:45pm-2:55pm	Academic Program Review Siamack Bondari and	3:30pm-4:00pm	The Equation of Euler's Line Yields a Tzitzeica Surface
	Monika Vo, Saint Leo University		Bogdan Suceava, California State University, Fullerton
1:00pm-3:00pm	Minicourse 2	1.00nm F.00nm	·
	Hall Ideas J, Monona Terrace	1:00pm-5:00pm	Project NExT Doty, Hilton
	The Ubiquitous Catalan Numbers and Their	1:00pm-5:00pm	Project NExT
	Applications		Vilas, Hilton
	Thomas Koshy, Framingham State College	1:00pm-5:00pm	Project NExT
1:00pm-4:00pm	Invited Paper Session		Tenny, Hilton
оор	Ballroom C, Monona Terrace	2:00pm-3:00pm	Green Tour
	Classical Euclidean Geometry		Meet at Lakeside Commons, Monona Terrace
	Paul Yiu,	2:00pm-5:00pm	Invited Paper Session
	Florida Atlantic University		Hall Ideas H, Monona Terrace
1:00pm-1:30pm	The Circles of Lester, Evans, Parry, and Their		Isoperimetric Problems and Manifolds With Density
	Generalizations		Frank Morgan, Williams College
	Paul Yiu, Florida Atlantic University	2:00pm-3:55pm	Pi Mu Epsilon Student Paper Session 1
1:30pm-2:00pm	Use of Oriented Angles and Their Extension to		Meeting Room L Monona Terrace
	n-Sections	2:00pm-3:55pm	Pi Mu Epsilon Student
	Eisso J. Atzema, University of Maine		Paper Session 2
	·		Meeting Room M, Monona Terrace
Cabadula of Evanta	Math Fact 2000		

2:00pm-3:55pm	MAA Student Paper	3:30pm-3:40pm	Three Colorings in Graphs
	Session 6 Meeting Room N, Monona Terrace		Gary Chartrand and Ping Zhang, Western Michigan University
2:00pm-3:55pm	MAA Student Paper Session 7		Futaba Okamoto, University of Wisconsin–La Crosse
2.000 2.55	Meeting Room Q, Monona Terrace		Zsolt Tuza, Hungarian Academy of Sciences, University of
2:00pm-3:55pm	MAA Student Paper Session 8	2.45 2.55	Pannonia
	Meeting Room R, Monona Terrace	3:45pm-3:55pm	Signed Graph Coloring, a Theorem of Jacobi, and the
2:30pm-5:00pm	Panels and Other Sessions		Art of Linear Algebra
	Ballroom B, Monona Terrace		Steven Morse and Elisha Peterson, United States Military
	MAA Section Officers Meeting		Academy (West Point)
	Moderator: Nancy L. Hagelgans, Ursinus College	4:00pm- 4:10pm	Open Source Software: What Can It Do for You?
3:00pm-4:20pm	Panels and Other Sessions		Tony Weathers,
	Lecture Hall, Monona Terrace		Adams State College
	SUMMA Special Session on MAA Summer Research Programs	4:15pm-4:25pm	Validating the Warrant $P(k) \rightarrow P(k+1)$: Does Any Means Justify the Ends?
	William Hawkins, MAA and University of the District of		Tabitha T. Mingus, Western Michigan University
	Columbia Robert Megginson,		Richard M. Grassl, University of Northern Colorado
3:15pm-5:15pm	University of Michigan General Contributed Paper Session 3	4:30pm-4:40pm	The Lorentz Transformation as a Visual Consequence of the Swiveled Line Theorem
	Meeting Room O Monona Terrace		John E. dePillis, University of California, Riverside
	Sarah Mabrouk, Framingham State College	4:45pm-4:55pm	The Explicit Solution to an
3:15pm-3:25pm	Pizza Delivery: 2—Stop— Return Distances in Graphs	т.тэрш-т.ээрш	Infinite Linear Differential Equation System
	Ralucca Gera, Naval Postgraduate School		Mahmoud F. Almanassra, University of Wisconsin– Marinette
	Linda Eroh, Steven J. Winters, and Grady Bullington, University of Wisconsin-Oshkosh	5:00pm-5:10pm	Exploring Prime Gaps with CAS (Computer Algebra System) Technology
			Jay Lawrence Schiffman, Rowan University

3:15 pm-5:45pm	Invited Paper Session Ballroom D, Monona Terrace	3:35pm-3:50pm	What is Mathematics and Why Won't It Go Away?
	Graph Theory With Connections to Geometry		Susan Jane Colley, Oberlin College
	and Topology Joshua Laison,	3:55pm-4:10pm	Teaching Art, Literature, Science, Theater, Speech,
	Willamette University		and Computer Science All in One Mathematics Course
3:15pm-3:45pm	An Adventurer's Guide to the Colorful Tale of Thickness—Two Graphs		Julie Barnes, Western Carolina University
	Ellen Gethner, University of Colorado – Denver	4:15pm-4:30pm	Viewing Mathematics as Human Endeavor
3:45pm-4:15pm	Visibility Graphs: Different		Mike Pinter, Belmont University
	Models of Sight Stephen Hartke, University of	4:35pm-4:50pm	MathTV: A Curiously Funny Mathematical Production
1.15nm 1.15nm	Nebraska – Lincoln		Michelle Ghrist, U.S. Air Force Academy
4:15pm-4:45pm	Recent Rectangle Visibility Results		Cynthia Elizabeth Chin,
	Alice Dean, Skidmore College		Madison East High School
4:45pm-5:15pm	Crossing Numbers		Jeffrey Sanders, Oberlin College
	Michael Pelsmajer, Illinois Institute of Technology		Jonathon Glam, U.S. Air Force Academy
5:15pm-5:45pm	Recognition Algorithms for Some Generalization of Interval Graphs	4:55pm-5:10pm	This World, and Others: FLATLAND in the Classroom, Rehearsal Studio, Theater, and Beyond
	Art Busch, University of Dayton		Mary Paulson,
3:15pm-6:15pm	Contributed Paper		Madison East High School
	Session Hall Ideas F, Monona Terrace	5:15pm-5:30pm	Mathematicians Can Participate in Faculty
	Incorporating Humanities and the Arts into the		Development for the Arts & Humanities
	Mathematics Classroom (and Vice Versa)		David Edward Boliver, University of Central Oklahoma
	Michelle Ghrist, U.S. Air Force Academy	5:35pm-5:50pm	Combinators, Topology, and Graph Theory in Jorge Luis
3:15pm-3:30pm	Mandala as the Key to Teaching Trigonometry to		Borges' Short Story "The Library of Babel"
	Multiple Intelligences		William L. Bloch,
	Paul F. Stang		Wheaton College

5:55pm-6:10pm	Running Circles 'round the Truth: A Mathematical Perspective on Deconstructive	4:35pm-4:50pm	Gender Division of Labor in Parenting: A Game—Theoretic Perspective
	Michael Wodzak, Viterbo University		Angela Vierling–Claassen, Lesley University
3:15pm-6:15pm	Contributed Paper Session	4:55pm-5:10pm	Four Stories in Applied Mathematics
	Hall Ideas I, Monona Terrace		William Joseph Stazer, 3M Company
	Actual Problems, Actual Mathematics — Applied Mathematics in Science and the Classroom I	5:15pm-5:30pm	Elementary Physical Chemistry Problems in Multi–Variable Calculus
	William Stone, New Mexico Institute of Mining		George Rublein, College of William and Mary
	and Technology Stephen Davis, Davidson College	5:35pm-5:50pm	Predator—Prey Models — A Generalization of
3:15pm-3:30pm	Quartic Equations Applied		Lotka—Volterra Model
	to 6–DOF Wiimote Tracking		Leon Kaganovskiy, New College of Florida
	William Stone, New Mexico Institute of Mining and Technology	5:55pm-6:10pm	The Brachistochrone Revisited: A Timely
	Stephen Davis, Davidson College		Consideration
3:35pm-3:50pm	Energy Efficient Flight: Decision—Making		Alfred Paul Lehnen, Madison Area Technical College
	Mathematics Glider Pilots Use to Soar Great Distance	3:30pm-5:00pm	Graduate Student Sessions
	Michael Lundin,		Exhibit Hall B, Monona Terrace
3:55pm-4:10pm	Central Washington University What Else Can You Do With		Graduate Student Poster Session
	an Open Topped Box?		James Freeman, Cornell College
	Doug Shaw, University of Northern Iowa	3:30pm-5:30pm	Minicourse 3
4:15pm-4:30pm	The Math Behind a Roll–		Hall Ideas G, Monona Terrace
	Call Vote Chen—Han Sung, Texas A&M		Teaching a Proof—Based Course as the Gateway to the Mathematics Major
	International University		James Sandefur, Georgetown University
			Connie Campbell, Millsaps College

3:30pm-5:30pm	Minicourse 4	5:00pm-6:00pm	Graduate Student Session
	Hall Ideas J, Monona Terrace		Senate AB, Concourse Hotel
	How to Run a Successful		Graduate Student Reception
	Math Circle Matthias Beck,		David Manderscheid, University of Nebraska–Lincoln
	San Francisco State University		James Freeman, Cornell College
	Tatiana Shubin, San Jose State University	5:00pm-6:30pm	SIGMAA on Teaching Advanced High School
	Sam Vandervelde, Saint Lawrence University		Mathematics
4:00pm-5:00pm	Panels and Other Sessions		Ballroom C, Monona Terrace
	Ballroom A, Monona Terrace		Business Meeting and Reception
	SIGMAA on the History of Mathematics		Creating a Post—Calculus Pre—Calculus Course for
	Grand Unveiling and Reception		Advanced High School Students
	Amy Shell-Gellasch,	7:00pm-10:00pm	Jazz on the Terrace
	Pacific Lutheran University		Rooftop, Monona Terrace
4:20pm-6:15pm	Undergraduate Activities		
	Pi Mu Epsilon Student Paper Session 3	Friday, Augus	<u>t 1</u>
	Meeting Room L Monona Terrace	8:00am – 4:00pm	Registration Lakeside Commons, Level 1
4:20pm-6:15pm	Pi Mu Epsilon Student Paper		Monona Terrace
	Session 4	8:30am-9:20am	MAA Invited Address
	Meeting Room M		MAA IIIVICU AUUICSS
	Monona Terrace		Ballroom AB, Monona Terrace
4:20pm-6:15pm			
4:20pm-6:15pm	Monona Terrace MAA Student Paper		Ballroom AB, Monona Terrace The Chaotic Evolution of
4:20pm-6:15pm 4:20pm-6:15pm	Monona Terrace MAA Student Paper Session 9 Meeting Room N	8:30am-10:30am	The Chaotic Evolution of Newton's Universe Donald Saari,
	Monona Terrace MAA Student Paper Session 9 Meeting Room N Monona Terrace MAA Student Paper	8:30am-10:30am	Ballroom AB, Monona Terrace The Chaotic Evolution of Newton's Universe Donald Saari, University of California, Irvine General Contributed Paper
	Monona Terrace MAA Student Paper Session 9 Meeting Room N Monona Terrace MAA Student Paper Session 10 Meeting Room Q	8:30am-10:30am	Ballroom AB, Monona Terrace The Chaotic Evolution of Newton's Universe Donald Saari, University of California, Irvine General Contributed Paper Session 4 Meeting Room O, Monona
4:20pm-6:15pm	Monona Terrace MAA Student Paper Session 9 Meeting Room N Monona Terrace MAA Student Paper Session 10 Meeting Room Q Monona Terrace MAA Student Paper	8:30am-10:30am	The Chaotic Evolution of Newton's Universe Donald Saari, University of California, Irvine General Contributed Paper Session 4 Meeting Room O, Monona Terrace Sarah Mabrouk,

8:30am-8:40am	The Status of Mathematics Education in Palestine	8:30am-10:30am	MAA Student Paper Session 12
	AbdelNaser Al-Hasan, MSOE &		Meeting Room L, Monona Terrace
8:45am-8:55am	An—Najah National University Assessing General Education Mathematics Courses	8:30am-10:30am	MAA Student Paper Session 13
	James Hamblin, Shippensburg University		Meeting Room M Monona Terrace
9:00am-9:10am	Calculus: One Lesson Study at	8:30am-10:30am	MAA Student Paper Session 14
	a Time Joy Becker, Christopher P. Bendel,		Meeting Room N Monona Terrace
	and Helen Schroeder, University of Wisconsin–Stout	8:30am-10:30am	MAA Student Paper Session 15
9:15am-9:25am	Applying Active— Cooperative Learning in Calculus 1		Meeting Room Q Monona Terrace
	Christopher K. Cartwright,	8:30am-10:30am	MAA Student Paper Session 16
9:30am-9:40am	Lawrence Technological University Calculus: Where We've		Meeting Room R Monona Terrace
7.30diii 7.40diii	Been; Where Are We Going?	8:30am-10:30am	Contributed Paper Session
	Karen Rhea, University of Michigan		Hall Ideas E, Monona Terrace
9:45am-9:55am	CAGD, Geometer's Sketchpad and Secondary Mathematics		Fascinating Examples from Combinatorics, Discrete Mathematics, and Graph Theory
	Murphy Waggoner, Simpson College		Suzanne Dorée, Augsburg College
10:00am-10:10am	Mathematicians' Uses of Computer Algebra Systems in Mathematics Teaching in the UK, US, and Hungary		Nancy Ann Neudauer, Pacific University
		8:30am-8:45am	Adapting Hosoya's Topological Index as a Local
10:15am-10:25am	Zsolt Lavicza, University of Cambridge		Vertex Enviroment Descriptor
	Laszlo Erdodi, Eastern Michigan University		Matthew G. Hudelson, Washington State University
	Teaching Statistics from A to Z	8:50am-9:05am	Viewing the Hamming Code in its Natural Habitat
	Jason Joseph Molitierno, Sacred Heart University		Paul Weiner, Saint Mary's University of Minnesota

9:10am-9:25am	MIT vs. Harvard: The Mathematics of Good Will Hunting	8:50am-9:05am	Using Video Podcasts to Model Critical Thinking in Undergraduate Mathematics
	Kristina Garrett, St. Olaf College		Jennifer Kosiak,
9:30am-9:45am	Generalized Permutation Descents and Inversions Controlled By a Drop Sequence	9:10am-9:25am	University of Wisconsin Using Technology to Promote Reflective Discourse: Combining Dynamically
	William Griffiths IV and Albert Bush, Southern Polytechnic		Connected Representations With Video Reflection
9:50am-10:05am	State University Edge Cut Cycles and Cutting		Douglas A. Lapp, Central Michigan University
9.50aiii–10.05aiii	Numbers of Cycles and	9:30am-9:45am	Popcorn Statistics
	Graphs		Allan Struthers,
	Dianna Spence, Brad Bailey, and John Holliday,		Michigan Technological University
	North Georgia College and State University	9:50am-10:05am	YouTube in the Classroom
	Peter D. Johnson,		Andrew S. Leahy, Knox College
10:10am-10:25am	Auburn University Cover Times for Stars,	10:10am-10:25am	Online Collaboration with a Wiki in Real Analysis
10.10aiii—10.23aiii	Sparklers, and the Petersen Graph		Elisha Peterson, United States Military Academy
	Robert Dobrow, Rebecca Ferrell,	8:30am-10:30am	Contributed Paper Session
	Miranda Fix and Michael Duyzend,		Hall Ideas I, Monona Terrace
	Carleton College		Incorporating Humanities and the Arts into the
8:30am-10:30am	Contributed Paper Session Hall Ideas F, Monona Terrace		Mathematics Classroom (and Vice Versa)
	Creative Uses of Emerging Technologies for		Michelle Ghrist, U.S. Air Force Academy
	Mathematics Teaching	8:30am-8:45am	Math Modeling Can Help
	Lila F. Roberts, Clayton State University		Build Bridges to the Humanities
	David R. Hill, Temple University		Rick L. Spellerberg,
8:30am-8:45am	Mathematics on the iPhone		Simpson College
	Lila F. Roberts,	8:50am-9:05am	Group Theory is Child's Play
	Clayton State University		Pamela Warton, University of Findlay

9:10am-9:25am	Mathematical World: Liberal Arts Mathematics With an Art Emphasis	9:30am-10:20am	Earle R. Hedrick Lecture Series
	Patricia Oakley, Goshen College		Ballroom AB, Monona Terrace
9:30am-9:45am	Perspective Drawing Experiment in a Freshman		Lecture 2 Origami, Linkage and Polyhedra: Geometric Folding Algorithms
	Interdisciplinary Seminar		Erik Demaine, Massachusetts
	Anna Davis, Ohio Dominican University	10 20 11 20	Institute of Technology
9:50am-10:05am	An Artistic Exploration	10:30am-11:20am	James R. Leitzel Lecture
	Within an Introduction to Measure Theory and Dimension		Ballroom AB, Monona Terrace Building Mathematical Communities
	Zdenka Guadarrama, Rockhurst University		T. Christine Stevens, Saint Louis University
10:10am-10:25am	An "Unreasonable" Reading	11:30am-12:00pm	MAA Prize Session
	Component to a Reasonable		Ballroom AB, Monona Terrace
	Course: Readings for a Transitional Class		Moderator: Martha J. Siegel
	Gizem Karaali, Pomona College	11:30am-12:30pm	Green Tour
9:00am-10:30am	SIGMAA on Research in Undergraduate Mathematics Education		Meet at Lakeside Commons, Monona Terrace
		11:30am-1:30pm	Square Wheeled Bicycle Demonstration
	Meeting Room K, Monona Terrace		Exhibit Hall B, Monona Terrace
	Workshop on Essential Reasoning Abilities and Conceptual Foundations of	1:00pm-1:50pm	NAM David Blackwell Lecture
	Calculus		Lecture Hall , Monona Terrace
	Marilyn P. Carlson, Arizona State University		Random Dynamics and Memory: Structure Within
9:00am-5:00pm	Art Exhibit		Chaos
	Exhibit Hall B, Monona Terrace		Salah–Eldin A. Mohammed, Southern Illinois University–
9:00am-5:00pm	Exhibits and Book Sales		Carbondale
	Exhibit Hall B, Monona Terrace	1:00pm-1:50pm	Undergraduate Activities
9:00am-5:00pm	Undergraduate Activities		Session
	Exhibit Hall B, Monona Terrace		Ballroom A, Monona Terrace
	Student Hospitality Center		What is the Color of My Hat?
	Richard and Araceli Neal, American Society for the Communications of Math		Ezra (Bud) Brown, Virginia Tech

1:00pm-1:50pm	Undergraduate Student Activities Session	2:00pm-2:15pm	Modeling Protein — DNA Complexes Using Tangles
	Ballroom B, Monona Terrace		Isabel Darcy, University of Iowa
	Mathematics in Forensics	2:20pm-2:35pm	Mathematical Modeling of Immune Response in Tissue
	Dan Russel, Oklahoma State Bureau of Investigation		Bo Su, Iowa State University
1:00pm-3:00pm	Invited Paper Session	1:00pm-3:00pm	Contributed Paper Session
i i	Ballroom C, Monona Terrace	,	Hall Ideas H, Monona Terrace
	Ramanujan's Impact on Number Theory— Then and Now		Interesting Topics in History of Mathematics that Enhance the Teaching and Learning of Mathematics II
	James Sellers, Penn State University		Daniel Curtin, Northern Kentucky University
	Krishna Alladi, University of Florida		Amy Shell—Gellasch, Pacific Lutheran University
	George Andrews, Penn State University Bruce Berndt, University of	1:00pm-1:15pm	Motivating Infinite Series Through Modified Leap Years
	Illinois at Urbana–Champaign		Robert Myers, Bethel College
	Ken Ono, University of Wisconsin	1:20pm-1:35pm	Napier's "Logarithms" Weren't
1:00pm-3:00pm	Invited Paper Session		Andrew deLong Martin,
	Ballroom D, Monona Terrace		Kentucky State University
1:00pm-1:15pm	Mathematical Biology Julie Mitchell,	1:40pm-1:55pm	Fermat's Shrinking Rectangles
420 425	University of Wisconsin		Amy Shell–Gellasch, Pacific Lutheran University
1:20pm-1:35pm	Multiple Equilibria and Global Attractors in Biochemical Reaction	2:00pm-2:15pm	It's Just Thin Air: Resistance and Projectile Motion
	Network Dynamics Gheorghe Craciun,		Shawnee McMurran, California State University San Bernardino
1:40pm-1:55pm	University of Wisconsin Physical Chemical Principles for Mathematical Analysis	2:20pm-2:35pm	Thomas Harriot's Pythagorean Triples: Could He List Them All?
	and Simulation of Large— Scale Biochemical Systems		Janet L. Beery, University of Redlands
	Daniel Beard, Medical College of Wisconsin	2:40pm-2:55pm	What's Interesting About the Number 1729?
Schadula of Evants	MathEast 2000		Peter Schumer, Middlebury College

1:00pm-3:00pm	General Contributed Paper Session 5 Meeting Room K, Monona Terrace	2:30pm-2:40pm	The Elementary Mathematical Theory of Parallelism, Convergence and Divergence
	Sarah Mabrouk, Framingham State College		Stewart Ernest Brekke, International University for
1:00pm-1:10pm	Angle Trisection in the Nine Pointed Star, and Introducing \text{\text{\$\psi}}	1:00pm-3:00pm	Graduate Studies Minicourse 2
	Paul Stang		Hall Ideas J, Monona Terrace
1:15pm-1:25pm	Dissecting 2n—Gons to Approximate the Circle—Squaring Process		The Ubiquitous Catalan Numbers and Their Applications
	Pamela B. Pierce and Jeffrey Willert,		Thomas Koshy, Framingham State College
	The College of Wooster	1:00pm-3:00pm	Minicourse 1
1:30pm-1:40pm	Exploring a Quartet of		Hall Ideas G, Monona Terrace
	Triangle Theorems — Old and New Insights via Geometer's Sketchpad		A Game Theory Path to Quantitative Literacy
	Gregory Gerard Wojnar, Frostburg State University		Rick Gillman, Valparaiso University
1:45pm-1:55pm	Limit Cycles From a Sum and Number of Digits		David Housman, Goshen College
	Concatenated Sequence	1:00pm-3:20pm	Contributed Paper Session
	Richard Brazier, Penn State University— DuBois Campus		Hall Ideas E, Monona Terrace
	Shauna Knarr and Andra Barraclough, Penn State University		Projects and Demonstrations That Enhance a Differential Equations Course
2:00pm-2:10pm	The Harmonic Series: Used, Abused, and Confused		Shawnee McMurran, California State University, San Bernardino
	Scott Hochwald, University of North Florida		Richard Marchand, Slippery Rock University
2:15pm-2:25pm	A Streamfunction—Velocity Based Simulation of the Laminar Flow Past a Square	1:00pm-1:20pm	Exploring Differential Equations Using MS Excel
	Cylinder Jiten C. Kalita, Indian Institute of Technology Guwahati, INDIA		Sarah Mabrouk, Framingham State College

1:20pm-1:40pm	The Laplace Transform: Motivating the Definition Howard I. Dwyer,	1:20pm-1:35pm	Using CaluMath Software to Create Interactive Web Pages for College Algebra,
	Monmouth College		Pre—Calculus, and Calculus
1:40pm-2:00pm	Integrating Synaptic Models into a Different Equations		Peter Turbek, Purdue University Calumet
	Course	1:40pm-1:55pm	Interactive CaluMath Web
	Joe Latulippe, Cal Poly Pomona		Pages for College Algebra and Pre—Calculus
2:00pm-2:20pm	Desktop Circuits: Audio Data Collection		Jeff Gregg, Purdue University Calumet
	Allen Struthers, Michigan Technological University	2:00pm-2:15pm	Capturing a Class: Adventures with Tegrity
2:20pm-2:40pm	Getting Your Hands Wet in a Differential Equations Course		Kevin William Dennis and Chad Kjorlien, Saint Mary's University of Minnesota
	Terry Jo Leiterman,	2:20pm-2:35pm	"Tabulating" Mathematics
	St. Norbert College		Denise LeGrand and Sally Robinson, UALR
2:40pm-3:00pm	Fundamental Solutions of Dirac System	2:40pm-2:55pm	Using Tablet PCs in
	Wen Liu and Gro Hovhannisyan,		Calculus 1
	Kent State University		Christopher K. Cartwright, Lawrence Technological
3:00pm-3:20pm	Stabilizing Elastic Beams		University
	Richard Marchand, Slippery Rock University	3:00pm-3:15pm	Using Clickers to
1:00pm-4:00pm	Contributed Paper Session		Encourage Discussion and Communication
	Hall Ideas F, Monona Terrace		in Mathematics
	Creative Uses of Emerging Technologies for Mathematics Teaching		Erick Hofacker and Kathryn Teresa Ernie, University of Wisconsin – River Falls
	Lila F. Roberts, Clayton State University	3:20pm-3:35pm	Using Clickers Toward Conceptual Understanding:
	David R. Hill, Temple University		Experiences in Statistical Courses
1:00pm-1:15pm	Mathematical Handwriting Recognition for Education		Teri Jo Murphy, University of Oklahoma
	Peter Garst, Enventra, Inc.	3:40pm-3:55pm	ICLICK the MATH in Class
			Chen—Han Sung, Texas A&M International University

1:00pm-5:00pm	Project NExT Doty, Hilton		Aaron Brakoniecki, Michigan State Universtiy
1:00pm-5:00pm	Project NExT Vilas, Hilton		Henry Kepner, Kevin McLeod, and DeAnn Huinker, University of Wisconsin-
1:00pm-5:00pm	Project NExT Tenny, Hilton		Milwaukee Joel Zeitlin and Jerrold Gold, California State University,
2:00pm-3:30pm	Panels and Other Sessions		Northridge
	Lecture Hall, Monona Terrace	2:15pm-3:35pm	Panels and Other Sessions
	MAA Alder Awards Session		Ballroom B, Monona Terrace
	Moderator–Joseph Gallian, University of Minnesota, Duluth, MAA President		Using On—Line Homework in Mathematics Classes
2:00pm-4:55pm	Pi Mu Epsilon Student Paper Session 5		Michael E. Gage, Arnold L. Pizer and Vicki Roth University of Rochester
	Meeting Room L, Monona Terrace	3:15pm-5:15pm	Invited Paper Session
2:00pm-4:55pm	Pi Mu Epilson Student Paper		Ballroom D, Monona Terrace
	Session 6 Meeting Room M, Monona Terrace		Implications for Teaching of Research on Learning
2:00pm-4:55pm	Pi Mu Epilson Student Paper Session 7		Patrick Thompson, Arizona State University
	Meeting Room N, Monona Terrace	3:15pm-3:30pm	The Role of Quantitative
2:00pm-4:55pm	MAA Student Paper Session 17		Reasoning in Learning Word Problems in Pre—Calculus Mathematics
	Meeting Room Q, Monona Terrace		Marilyn Carlson,
2:00pm-4:55pm	MAA Student Paper Session 18	3:35pm-3:50pm	Arizona State University From Individual Interviews
	Meeting Room R, Monona Terrace	oloopiii oloopiii	to Whole-Class
2:15pm-3:35pm	Panels and Other Sessions Ballroom A, Monona Terrace		Experiments: Reconstructing a Course in Abstract Algebra
	Teachers for a New Era's Impact on Mathematics Education		Sean Larsen, Portland State University
	Magnhild Lien, California State University, Northridge	3:55pm-4:10pm	Successful and Unsuccessful Students' Learning Strategies in Real Analysis
	Nancy Marcus, University of Texas, El Paso		Keith Weber, Rutgers University

4:15pm-4:30pm	Learning Without Understanding and Its Implications for the Mathematics That Teachers Teach	4:00pm-4:10pm	Teach Concepts and Understanding, and Do Not Concentrate on Manipulations Which Hinder This
	Pat Thompson, Arizona State University		Herman Rubin, Purdue University
3:15pm-4:35pm	Panels and Other Sessions	4:15pm-4:25pm	Strengthening and
	Ballroom C, Monona Terrace		Assessing College Students' Learning
	How to Apply for Jobs		Outcomes in
	David Manderscheid, University of Nebraska–Lincoln		General Education Mathematics Courses
3:15pm-5:30pm	General Contributed Paper Session 6		Xuhui Li, California State University, Long Beach
	Meeting Room O Monona Terrace	4:30pm-4:40pm	The Effect of Knotting on the Shape of Polymers
	Sarah Mabrouk, Framingham State College		Kenneth Cary Millett, University of California
3:15pm-3:25pm	Challenging Gifted High	4:45pm-4:55pm	SPLN—What is it?
	School Students		Monika Vo,
	Vince Matsko, IMSA		St. Leo University
3:30pm-3:40pm	Cross—Cultural Analysis of Females Identified with Exceptional Mathematical Talent	5:00pm-5:10pm	Teaching Mathematics to Lebanese Engineers: The Experience of the Ecole Supérieure
	Janet E. Mertz, University of Wisconsin – Madison		d'Ingénieurs de Beyrouth
	Titu Andreescu, University of Texas – Dallas		Salim Wehbé Salem, Ecole Supérieure d'Ingénieurs de Beyrouth
	Joseph A. Gallian, University of Minnesota Duluth	5:15pm-5:25pm	Facilitating IBL Classroom Issues With Technology
	Jonathan Kane, University of Wisconsin – Whitewater		Glenn Hurlbert, Arizona State University
3:45pm-3:55pm	Compass and Straightedge Constructions, Without a Compass		
	Charlotte Schulze–Hewett, Harper College		

3:15pm-6:15pm	Contributed Paper Session Hall Ideas H, Monona Terrace Projects, Applications and	4:55pm-5:10pm	Some Interesting Applications of Numerical Analysis in Science and Engineering
	Demonstrations to Enhance a Numerical Analysis or Computational Mathematics Course	5.15nm 5.20nm	Muhammad Usman, University of Dayton
	Olga Brezhneva, Miami University	5:15pm-5:30pm	Truth, Justice and the Search for Rigorous Error Bounds: A Case Study in Interval Analysis
	David Coulliette, Asbury College		Matthew Glomski,
3:15pm-3:30pm	Muscle Contraction Modeling — This Will Pump You Up!	5:35pm-5:50pm	Marist College Providing Options: Making
2.25nm 2.50nm	David Coulliette, Asbury College	3.33piii-3.30piii	Projects Work for a Diverse Audience
3:35pm-3:50pm	If I May Make a Generalization, Generalizations are		Andrew John Miller, Belmont University
	Generally Good (in numerics)	5:55pm-6:10pm	Projects and Illustrations That Can Be Used In a
	Anthony Tongen, James Madison University		Numerical Analysis Course
3:55pm-4:10pm	Expert vs. Novice		Olga Brezhneva, Miami University
	Understanding of Estimation Using Taylor Series	3:30pm-5:30pm	Contributed Paper Session Hall Ideas E, Monona Terrace
	Jason Howard Martin, University of Oklahoma		How To Get Students to Read the Text and Does This Matter?
4:15pm-4:30pm	Computational Applications in Mathematical Biology		Mike Axtell, Wabash College
	Nicoleta Eugenia Tarfulea, Purdue University Calumet		Joe A. Stickles Jr. and Paula R. Stickles,
4:35pm-4:50pm	Exploring Computational Mathematics: Unfolding Polyhedra	3:30pm-3:45pm	Millikin University Read It— Techniques to Get It to Happen
	Brittany Terese Fasy,		Allen Hibbard, Central College
	Duke University David Millman, UNC – Chapel Hill	3:50pm-4:05pm	"Do Real Mathematicians Read The Book?": Encouraging Mathematical Maturity Via Reading Checks
			Andrea Frazier, North Central College

4:10pm-4:25pm	Assessing Student Growth in Reading Mathematics	4:00pm-5:30pm	SIGMAA on the Philosophy of Mathematics
	Bonnie Gold, Monmouth University		Ballroom A, Monona Terrace
4:30pm-4:45pm	Learning Styles and		Guest Lecture and Reception
4.30pm 4.43pm	Measurable Reading Assignments		Mo Hirsch, University of California, Berkeley
	Rachel Esselstein, California State University, Monterey Bay	4:00pm-5:45pm	Panels and Other Sessions Lecture Hall, Monona Terrace
4:50pm-5:05pm	What Do Students Actually		Hard Problems: Movie
	Read, and Its Educational Implications?		George Csicsery, Zala Films
	Bill Rybolt, Babson College	4:15pm-5:15pm	Contributed Paper Session Hall Ideas E, Monona Terrace
5:10pm-5:25pm	What Students Read is Not Necessarily What They "Get"		Advances in Recreational Mathematics
	Mary D. Shepherd, Northwest Missouri State University		Paul R. Coe and Kristen Schemmerhorn,
3:30pm-5:30pm	Minicourse 5		Dominican University
	Hall Ideas G, Monona Terrace	4:15pm-4:30pm	Falling Through the Earth in
	Perspective Viewing and Drawing Make Good Math Problems		the <i>Mirror of the World</i> Andrew Simoson, King College
	Marc Frantz, Indiana University	4:35pm-4:50pm	N + k Queens Reflection
	Annalisa Crannell, Franklin & Marshall College		Doug Chatham, Morehead State University
3:30pm-5:30pm	Minicourse 6	4:55pm-5:10pm	First Occurrence
	Hall Ideas J, Monona Terrace		Counterexamples in Odd Abundant
	Mathematics and the		Number Sequences
	Geometry of Voting		Jay Schiffman, Rowan University
	Donald G. Saari, University of California Irvine	4:30pm-6:00pm	SIGMAA on Environmental Mathematics
			Ballroom D, Monona Terrace
			Guest Lecturer and Business Meeting
			Models for Managing Forested Landscape
			Joseph Buongiorno, University of Wisconsin

6:00pm-7:45pm	Undergraduate Activities Grand Terrace, Monona Terrace		William Stone, New Mexico Institute of Mining and Technology	
	Pi Mu Epsilon Student Banquet and Awards Ceremony		Stephen Davis, Davidson College	
7:00pm-9:00pm	UW-Madison Alumni Reunion	8:30am-8:45am	Problem Formulation for Sustainability	
	UW-Madison Campus, Van Vleck Hall		Chulin Likasiri, Chiang Mai University	
8:00pm-8:50pm	Pi Mu Epsilon J. Sutherland Frame Lecturer	8:50am-9:05am	A Modular Approach to Teaching a Course in Application—Based Problem Solving	
	Ballroom AB, Monona Terrace		Benjamin Galluzzo,	
	The Symmetries of Things		University of lowa	
	John H. Conway, Princeton University		Theodore Wendt, University of Wisconsin – La Crosse	
9:00pm-10:00pm	MAA Ice Cream Social	9:10am-9:25am	Using Simulation to Verify	
	Grand Terrace, Monona Terrace		Biological Model Fit with Field Data	
Saturday, Aug	gust 2		Scott Searcy and Paul Bartelt, Waldorf College	
7:00am-9:00am	5K Fun Run/Walk	9:30am-9:45am	Modeling the Buoyancy Properties of Virginia Class	
	Meet in the Lobby, Monona Terrace		Submarines	
8:00am-2:00pm	Registration		James S. Rolf and	
0.00diii 2.00piii	Lakeside Commons, Level 1 Monona Terrace		Kimberly Swetz, United States Air Force Academy	
8:30am-9:20am	AWM–MAA Etta Z.	9:50am-10:05am		Euler's Constant in Interstate Highway Driving
	Falconer Lecture		Mostafa Ghandehari and	
	Ballroom AB, Monona Terrace		Siamak Ardekani, University of Texas at Arlington	
	The Circle: From Antiquity to Today	10:10am-10:25am	Wavelet Transforms: The	
	Rebecca Goldin,		Linear Algebra Approach	
8:30am-10:30am	George Mason University Contributed Paper Session		Jenae Beauchamp, Eastern Connecticut State University	
o.svaiii— IV:SVAM	Hall Ideas I, Monona Terrace	8:30am-10:30am	General Contributed Paper Session 7	
	Actual Problems, Actual Mathematics — Applied		Hall Ideas I, Monona Terrace	
	Mathematics in Science and the Classroom		Sarah Mabrouk, Framingham State College	
		Math	Fest 2008 Schedule of Events	

8:30am-8:40am	Statistics'r'us — Reshaping Students' Attitude From Aversion and Anxiety to	10:00am-10:10am	Common Misconceptions in Middle School Math Textbooks
	Curiosity and Confidence Laszlo Erdodi,		Jerome Dancis, University of Maryland
	Eastern Michigan University Zsolt Lavicza,	10:15am-10:25am	Maplets for Calculus— Tutoring Without the Tutor
8:45am-8:55am	University of Cambridge Data Mining: An Emerging		Philip B. Yasskin, Texas A&M University
0.43aiii—0.33aiii	Topic in Mathematical/ Statistical Education		Douglas B. Meade, University of South Carolina
	Deborah Gougeon, University of Scranton	8:30am-10:30am	Contributed Paper Session
9:00am-9:10am	The Next Phase In		Meeting Room M Monona Terrace
	Developing Effective Teaching Techniques For Undergraduate College Algebra Courses		Fascinating Examples from Combinatorics, Discrete Mathematics, and Graph Theory
	Jonathan Paul Lambright, Savannah State University		Suzanne Dorée, Augsburg College
9:15am-9:25am	Let's Do This Once: Folding Vector Calculus into Multivariable Calculus		Nancy Ann Neudauer, Pacific University
	Using Geometry and Language	8:30am-8:45am	Changing Dimensionality in Data Processing
	Aaron Wangberg, Winona State University		Amy Mihnea, Florida Atlantic University
9:30am-9:40am	Dual Enrollment Using Mathxl	8:50am-9:05am	Building Fast Communications Networks:
	William Calbeck, LSU–Alexandria		A Brief Introduction to Expanders and Ramanujan Graphs
9:45am-9:55am	College Entrance Examinations You Need to Pass to Be a Middle School or		Mike Krebs, California State University, Los Angeles
	High School Mathematics Teacher in Japan	9:10am-9:25am	Minimum Spanning Trees: An In—Class Project
	Kazuko Ito West,		Pallavi Jayawant, Bates College
	Keio Academy of New York	9:30am-9:45am	Egalitarian Matching and Normalized Matching
			Mark Joseph Logan, University of Minnesota – Morris

9:50am-10:05am	A Graph Theoretic Proof That There Are Only	9:50am-10:05am	Students and College Algebra Textbooks
	Five Platonic Solids		Satish C. Bhatnagar, UNLV
	Alan Alewine, McKendree University	8:30am-10:30am	Contributed Paper Session
10:10am-10:25am	The Pohlig—Hellman		Meeting Room Q, Monona Terrace
10.104111 10.254111	Exponentiation Cipher as a Bridge Between Classical and Modern Cryptography		Incorporating Humanities and the Arts into the Mathematics Classroom (and Vice Versa)
	Joshua Holden, Rose—Hulman Institute of Technology		Michelle Ghrist,
8:30am-10:30am	Contributed Paper Session		U.S. Air Force Academy
o.svaiii– iv.svaiii	Meeting Room N, Monona Terrace	8:30am-8:45am	Teaching the Mathematics of Music
	How To Get Students to Read the Text and Does This Matter?		Rachel Hall, Saint Joseph's University
	Mike Axtell, Wabash College Joe A. Stickles, Jr. and	8:50am-9:05am	Mathematics in Music: An Interdisciplinary Course
	Paula R. Stickles, Millikin University		James Richard Hughes, Elizabethtown College
8:30am-8:45am	Learning to Read and Reading to Learn: The Value of Reading the Text Before	9:10am-9:25am	A Musical Journey Through Abstract Algebra
	Class Matt Boelkins,		Samuel A. Lopes, University of Poto, Portugal
8:50am-9:05am	Grand Valley State University Homework Can Motivate	9:30am-9:45am	Leading a Book Discussion in a Liberal Arts
7,000	Students to Read the Book		Mathematics Class
	Richard Maher, Loyola University Chicago		Russell Goodman, Central College
9:10am-9:25am	Journal Forms to Test Student's Understanding	9:50am-10:00am	Honor—ing Mathematics History
	Amy Wehe and Rala Diakite,		Tracey McGrail, Marist College
9:30am-9:45am	Fitchburg State College An Analysis Sketchbook:	10:10am-10:25am	Finite, Infinite, and Countable Infinite
7.JVaiii—7.TJaiii	Rethinking Texts to Generate Student Interest		Timothy Agendia Atabong, Madonna University, Nigeria
	Clark Wells, Grand Valley State University	8:30am-10:30am	Contributed Paper Session Meeting Room R Monona Terrace

	Interesting Topics in History of Mathematics that Enhance the Teaching and Learning of Mathematics	9:00am-10:30am	Math Matters: Numerate Approaches to Everyday Issues Ballroom C, Monona Terrace
	Daniel Curtin, Northern Kentucky University		Maura Mast, University of Massachusetts at Boston
	Amy Shell–Gellasch, Pacific Lutheran University	9:00am-10:30am	Undergraduate Activity
8:30am-8:45am	Connecting Pascal's Triangle to Geometry and Trigonometry		MAA Mathematical Contest in Modeling (MCM) Winners
	Tom McMillian and Jim Fulmer, University of Arkansas at Little Rock		Ben Fusaro, Florida State University
8:50am-9:05am	Treasures in Three	9:00am-10:30am	SIGMAA on Research in Undergraduate
	Joyati Debnath, Winona State University		Mathematics Education Hall Ideas F, Monona Terrace
9:10am-9:25am	"Vedic" Decimal Fraction Patterns		Workshop on Essential Reasoning Abilities and
0.20	Jeff Johannes, SUNY Geneseo		Conceptual Foundations of Calculus
9:30am-9:45am	Ghosts of Departed Errors: Berkeley's Mathematical Objections to the Calculus		Marilyn P. Carlson, Arizona State University
	Eugene Boman, Penn State University, Harrison Campus	9:00am-2:00pm	Art Exhibit Exhibit Hall B, Monona Terrace
9:50am-10:05am	Mathematician or Poet	9:00am-2:00pm	Exhibits and Book Sale
	Mohammad Moazzam, Salisbury University	2.22	Exhibit Hall B, Monona Terrace
10:10am-10:25am	Who Discovered Discontinuous	9:00am-2:00pm	Undergraduate Activities Exhibit Hall B, Monona Terrace
	Derivatives?		Student Hospitality Center
	Dave Lawrence Renfro, ACT, Inc.		Richard and Araceli Neal, American Society for the Communications of Math
9:00am-10:20am	Finding a Good Fit in a Graduate Program Hall Ideas H, Monona Terrace	9:30am-10:20am	Earle R. Hedrick Lecture Series
	Abbe H. Herzig, SUNY at Albany		Ballroom AB, Monona Terrace
	<i>-</i>		Lecture 3 Transformers: Reconfigurable Robots and Hinged Dissections
Schedule of Events	MathFest 2008		Erik Demaine, Massachusetts Institute of Technology

9:30am-10:30pm	Math Horizons Session	1:00pm-3:00pm	Invited Paper Session Ballroom D, Monona Terrace
10.20 11.20	Lecture Hall, Monona Terrace		
10:30am-11:20am	MAA Invited Address		History of Mathematics
	Ballroom AB, Monona Terrace		Amy Shell–Gellasch, Pacific Lutheran College
	Generalizing " ℓ ": The Combinatorics of " ℓ " "Sequences		Shawnee L. McMurran, California State University, San Bernardino
	Carla Savage, North Carolina State University	1:00pm-1:15pm	Motivating Infinite Series Through Modified Leap Years
11:00am-12:00pm	Green Tour		Robert Myers, Bethel College
	Meet at Lakeside Commons, Monona Terrace	1:20pm-1:35pm	Napier's "Logarithms" Weren't
11:30am-12:00pm	MAA Business Meeting		Andrew deLong Martin,
	Ballroom AB, Monona Terrace		Kentucky State University
	Moderated by Martha J. Siegel, Towson University,	1:40pm-1:55pm	Fermat's Shrinking Rectangles
	MAA Secretary		Amy Shell-Gellasch,
1:00pm-2:00pm	Flatland: Movie		Pacific Lutheran University
	Ballroom B, Monona Terrace	2:00pm-2:15pm	It's Just Thin Air: Resistance and Projectile Motion
1:00pm-2:20pm	Creating a Post—Calculus Pre—Calculus Course for Advanced High School		Shawnee McMurran, California State University, San Bernardino
	Students	2:20pm-2:35pm	Thomas Harriot's
	Lecture Hall, Monona Terrace		Pythagorean Triples: Could He List Them All?
	Dan Teague, NC School of Science and Mathematics		Janet L. Beery, University of Redlands
	Dan Lotesto, Milwaukee Public Schools	2:40pm-2:55pm	What's Interesting About
1.00		2. 4 0piii-2.33piii	the Number 1729?
1:00pm-2:20pm	First—Year Courses Designed to Attract Students to the Serious		Peter Schumer, Middlebury College
	Study of Mathematics	1:00pm-3:00pm	Contributed Paper Session
	Ballroom A, Monona Terrace		Hall Ideas F, Monona Terrace
	Michael Starbird, University of Texas		Innovations in Mathematics Education I
	James Sellers, Penn State University		Nancy Leveille and Carol Vobach, University of Houston–Downtown

1:00pm-1:10pm	Supplementing Pre—Service Mathematical Content Courses with Online Homework	2:30pm-2:40pm	Technology, Conjecture and Proof: Exposing the Thinking of Teachers Kathryn Shafer, Bethel College
	Michael B. Scott, California State University, Monterey Bay	2:45pm-2:55pm	University Geometry: Pre—Service Teachers'
1:15pm-1:25pm	Development of a Survey to Assess Pre—Service		Views on Its Role in the Classroom
	Teachers' Views and Uses of Problem—Solving in Mathematics		Angela Marie Hodge, North Dakota State University
	Jane Ries Cushman, Buffalo State College	1:00pm-3:00pm	Minicourse 3 Hall Ideas G, Monona Terrace
1:30pm-1:40pm	Focusing Pre—Service Elementary Teachers' Thinking on Children's		Teaching a Proof—Based Course as the Gateway to the Mathematics Major
	Thinking in Order to Deepen Their Mathematical Understanding		James Sandefur, Georgetown University
1:45pm—1:55pm	Jeff Gregg and Gayle Millsaps,	1:00pm-3:00pm	Connie Campbell, Millsaps College
	Purdue University Calumet Using Cryptography to Teach Number Theory to Future Middle School Teachers		General Contributed Paper Session 8
			Hall Ideas I, Monona Terrace
			Sarah Mabrouk,
	Bonnie Saunders and Janet Simpson Bessinger, University of Illinois at Chicago	1:00pm-1:10pm	Framingham State College The Impact of K-12 Mathematics on College
2:00pm-2:10pm	Vertically Connecting College and Middle Grades Mathematics: The Two—Problem Comparison Paper Theresa A. Jorgensen, University of Texas at Arlington		Mathematics
			Magdalena Luca, Massachusetts College of Pharmacy and Health Sciences
		1:15pm-1:25pm	Induced Topologies and Separation Axioms
			Jay Stine, Misericordia University
2:15pm-2:25pm	The Impact of Teaching for Understanding Experiment in 8—12th	1:30pm-1:40pm	An Integral Representation for Zeta(n)
	Grade Mathematics		Ranjith A Munasinghe,
	John Hasenbank and Jennifer Kosiak, University of Wisconsin – La Crosse		WVU Institute of Technology

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1:45pm-1:55pm	Addressing the Hammer- and-Nail Phenomenon in	1:00pm-4:15pm	Contributed Paper Session Hall Ideas E, Monona Terrace
	Mathematics Classrooms Kien Hwa Lim, University of Texas at El Paso		Fascinating Examples from Combinatorics, Discrete Mathematics, and Graph
2:00pm-2:10pm	Modified Taylor Polynomials		Theory
	Sayel Ali, Minnesota State University, Moorhead & The Petroleum Institute/Abu Dhabi		Suzanne Dorée, Augsburg College
	Radwan Al-jarrah, Southwestern		Nancy Ann Neudauer, Pacific University
	Oklahoma State University	1:00pm-1:20pm	Fibonacci Trees: A Dream
2:15pm-2:25pm	Obsession From the Greeks:		Come True
	Doubling Cubes, Squaring Circles, Trisecting Angles, and Constructing		Benjamin V.C. Collins, University of Wisconsin – Platteville
	Regular Polygons	1:25pm-1:45pm	Using Recursion to Study Mathematical Induction,
	Charlie Smith, Park University		Schur Numbers, and the Pill Problem
2:30pm-2:40pm	Factor, Factor - Who's Got the Factor?		Keith Brandt, Rockhurst University
	Leslie Horton, Delta State University	1:50pm-2:10pm	An Unexpected Appearance of Continued Fractions
2:45pm-2:55pm	An Idealized Mathematical Model of a Runner Built-Up From the Angle-of-Lean		David Molnar and Adam McDougall, University of Iowa
	Michael Edward Zeidler, Retired	2:15pm-2:35pm	Numerals Based on the
1:00pm-3:00pm	Minicourse 4		Golden Ration
	Hall Ideas J, Monona Terrace		Bruce Walker Atkinson, Samford University
	How to Run a Successful Math Circle	2:40pm-3:00pm	Activities Exploring the
	Matthias Beck, San Francisco State University	2.10pm 3.00pm	Collatz Conjecture – An Unsolved Problem in Fifth Grade Arithmetic
	Tatiana Shubin, San Jose State University		Doug Shaw, University of Northern Iowa
	Sam Vandervelde,	3:05pm-3:25pm	Edge Nets of Cubes
1:00nm 2:00nm	Saint Lawrence University Graduate Paper Session		Vince Matsko, IMSA
1:00pm-3:00pm	Graduate Paper Session Meeting Room M, Monona Terrace	3:30pm-3:50pm	Hard to Guard Art Galleries
	James Freeman, Cornell College		T.S. Michael, United States Naval Academy

3:55pm-4:15pm	Paint By Numbers: Constructing a Map That	4:30pm-5:00pm	Ramanujan's Dream
	Needs Nineteen Colors		Marc Chamberland Grinnell College
	Todd Cadwallader Olsker, California State University, Fullerton	1:30pm-5:00pm	Aldo Leopold Legacy Center Trip
1:00pm-5:00pm	Invited Paper Session		Meet in the Lobby Monona Terrace
	Ballroom C, Monona Terrace	2:00pm-3:15pm	Undergraduate Activity
	Research With Undergraduates		Meeting Room R Monona Terrace
	Mario Martelli, Claremont–McKenna College		Do Dogs Know Calculus? Bifurcations at the Beach
1:00pm-1:30pm	From Chaos to Colleagues		Tim Pennings, Hope College and
	Annalisa Crannell,		his dog Elvis
1.30 2.00	Franklin & Marshall College	2:30pm-3:45pm	Undergraduate Activity
1:30pm-2:00pm	Knot Theory Research with Undergraduates		Ballroom A, Monona Terrace
	Colin Adams, Williams College		Student Problem Solving Competition
2:00pm-2:30pm	Compactness in Metric Trees		Richard Neal, American Society
	Asuman Aksoy, Claremont-McKenna College		for the Communication of Mathematics
2:30pm-3:00pm	Building Communities Through REU Programs	3:00pm-4:20pm	The Role of Open Source Math Projects in the Mathematics Community
	Carlos Castillo—Chavez, Arizona State University		Lecture Hall, Monona Terrace
3:00pm-3:30pm	How to Juggle Seven Undergraduate Student		Charles Weaver, University of Phoenix
	Projects Without Dropping Any		Jason Aubrey, University of Missouri
	Jacqueline Jensen, Sam Houston State University		Michael Scott, California State University, Monterey Bay
3:30pm-4:00pm	The Applied Representation Theory Group at Harvey	3:15pm-5:15pm	General Contributed Paper Session 9
	Mudd College		Hall Ideas I, Monona Terrace
	Michael Orrison, Harvey Mudd College		Sarah Mabrouk, Framingham State College
4:00pm-4:30pm	Tracing Certain <i>n</i> — Dimensional Space Point		
	Aihua Li, Montclair State University		

3:15pm-3:25pm	Illuminating Group Lattices	5:00pm-5:10pm	Biharmonic—Extension Space
	Nancy Rodgers, Hanover College		Ibtesam Bajunaid, King Saud University
	Doug Anewalt,	3:15pm-5:15pm	Invited Paper Session
	University of Kentucky		Ballroom B, Monona Terrace
3:30pm-3:40pm	Elastic—plastic Transition of Transversely Isotropic Thin		Gems in Number Theory
	Rotating Disc		Sarah Mabrouk, Framingham State College
	Sanjeev Sharma and Noida Manojshani,	3:15pm-3:40pm	A Tale of Two Curves
	Jaypee Institute of Information Technology University		Ezra Brown, Virginia Tech
3:45pm-3:55pm	Creep Transition of Transversely Isotropic Thin	3:45pm-4:05pm	Farey Fractions and Ford Circles
	Rotating Disc		Richard K. Guy, University of Calgary
	Noida Manojshani and Sanjeev Sharma, Jaypee Institute of Information	4:10pm-4:30pm Solutions	Two Ways to Count to Polynomial Equations
	Technology University		Margaret Robinson,
4:00pm-4:10pm	A Generalization of Taylor's Theorem: A Determinant Approach	4:35pm-5:10pm	Mt. Holyoke College
			Biscuits of Number Theory
	Using Mathematica		Art Benjamin, Harvey Mudd College
	Radwan Al–jarrah, Southwestern Oklahoma State University		Ezra Brown, Virginia Tech
	Sayel Ali, Minnesota State University, Moorhead & The Petroleum Institute/Abu Dhabi	3:15pm-5:15pm	Contributed Paper Session Hall Ideas E, Monona Terrace
4:15pm-4:25pm	Probe into Goldbach Problem		Innovations in Mathematics Education II
	Liu Maocheng,		Nancy Leveille and
	Shengli Petroleum Bureau		Carol Vobach, University of
4:30pm-4:40pm	Beyond Classic: New Solution to Generalized Quadratic Function and Equation	3:15pm-3:25pm	Houston–Downtown Geometer's Sketchpad
	Roland Shen, Olympia Institute		Software (GPS) as a Teaching Aid for Secondary
4:45pm-4:55pm	Multipliers and Operators		School Level
חוקכנה חוקכה	on The Tempered Ultra— distributional Spaces of Roumieu Type for The Hankel Type Transformation		Abd Rahim Abd Salim, University Teknologi Petronas

Shrideh Khalaf Alomari

3:30pm-3:40pm	Putting a STAMP on Mathematics Teacher Education Tim Hendrix, Meredith College	3:15pm-5:15pm	General Contributed Paper Session 10 Meeting Room N Monona Terrace
3:45pm-3:55pm	Constructing a World of Mathematics in the Middle		Sarah Mabrouk, Framingham State College
	School Melissa A. Stoner, Lehigh University	3:15pm-3:25pm	The Box Method for Teaching Ratio and Proportion Problems
4:00pm-4:10pm	PRAXIS Project WI:		Jim Sullivan, Dallas ISD
	Interactive Learning Objects	3:30pm-3:40pm	Simultaneous Binary Collision for the Collinear
	Kathryn Teresa Ernie and Erick Hofacker, University of		Four Body Problem
4:15pm-4:25pm	Wisconsin – River Falls Math 201: Mathematics,		Duokui Yan, Brigham Young University
	Education, and Access to Power	3:45pm-3:55pm	Paracycles in Snell Geometries
	Alan P. Knoerr, Occidental College		Jack Mealy and Cicily Smith, Austin College
4:30pm-4:40pm	Place Value Arithmetic via Polynomials	4:00pm-4:10pm	Thin Film Over Thin Porous Layers
	Jeff Johannes, SUNY Geneseo		Kumnit Nong,
4:45pm-4:55pm	Preparing Elementary School Teaching		George Mason University
	Candidates to Meet Changing Licensure	4:15pm-4:25pm	On the Representation of Recursive Functions by Integrals
	Requirements in Mathematics		Raymond Stanley Puzio, PlanetMath
	Donna Beers, Simmons College	4:30pm-4:40pm	Milking the Fascinating
5:00pm-5:10pm	Using Prediction Items and Clickers to Address		Applications of Geometric Power Series
	Misconceptions Kien Hwa Lim,		Mulatu Lemma, Savannah State University
3:15pm-5:15pm	University of Texas at El Paso Graduate Student	4:45pm-4:55pm	Lagrangian Formulations of Mechanics With Designer Conservation Laws
21.12 km	Paper Session		Artem Yankov, BYU REU
	Meeting Room M Monona Terrace		
4			

James Freeman, Cornell College

Hall Ideas G, Monona Terrace

Perspective Viewing and Drawing Make Good Math Problems

Marc Frantz, Indiana University

Annalisa Crannell,

Franklin & Marshall College

3:30pm-5:30pm

Minicourse | 6

Hall Ideas J, Monona Terrace

Mathematics and the Geometry of Voting

Donald G. Saari,

University of California, Irvine

6:00pm-9:00pm

MAA Silver and Gold Reception and Banquet

Grand Terrace, Monona Terrace

Sunday, August 3

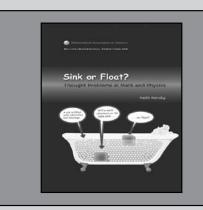
8:15am-12:15pm

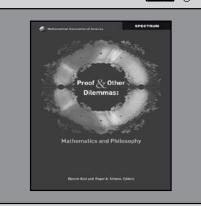
Taliesin Tour

Meet in the Lobby Concourse Hotel

New Titles from the Mathematical Association of America:







Also, Join Us at the Publications Booth for Signings by these Authors:

Thursday, July 31:

11:30am-12:00pm- John DePillis author of "777 Mathematical Conversation Starters"

Friday, August 1:

11:30am-12:00pm- Art Benjamin author of "Secrets of Mental Math"

12:00pm-12:30pm- Keith Kendig author of "Sink or Float? Thought Problems in Math and Physics"