

Gathering 4 Gardner 14 Presentation Schedule

Thursday, April 7th, 2022

Morning Session: 8:30 AM - 12:00 PM

	Speaker	Title		
8:30 AM	Skona Brittain	14 Numbers for G4G14	<i>6 min</i>	8:30 AM
	Kenneth Brecher	The Sirius Enigmas Mathematical Tops	<i>6 min</i>	
	George I. Bell	Fun with tops	<i>6 min</i>	
	Sabine Segre	Rep-Tile Tangram	<i>6 min</i>	
	Ryuhei Uehara *	Solving Rep-tile by Computers	<i>6 min</i>	
	Robert W Vallin	An Unexpected Appearance (or Look Ma, No Rectangles)	<i>6 min</i>	
	Jorge Nuno Silva *	Magic and problems from half a millennium ago	<i>6 min</i>	
	Rick Sommer	Knuth's Up-arrow into the Transfinite, and Beyond!	<i>6 min</i>	
	Nathaniel Segal	Performing On The Virtual Stage	<i>6 min</i>	
	Adam Atkinson *	Daedalus	<i>6 min</i>	
	Raymond Hall	@physicsfun: Social Media as a Museum of Science and Math (and A Recent Path Down a Rabbit Hole with Pentomino Tilings)	<i>6 min</i>	
10:00 AM	<i>Break</i>		<i>30 min</i>	10:00 AM
10:30 AM	Ingrid Daubechies	Mathemalchemy	<i>45 min</i>	10:30 AM
	Darren Glass *	Chutes and Ladders with Multiple Dice	<i>6 min</i>	
	Peter Cannon	Interviewing Martin Gardner	<i>6 min</i>	
	Alexandre Owen Muñiz	Which Pentomino Is the Least Convex?	<i>6 min</i>	
	Erika Roldán *	Youth Initiative (YI)	<i>6 min</i>	
	Gabriel Kanarek	A Variation on the Erdős-Straus Conjecture	<i>6 min</i>	
12:00 PM				

Afternoon Session: 1:30 PM - 5:15 PM

	Speaker	Title		
1:30 PM	Various	Tributes to Berlekamp, Conway, Guy, Graham, and Randi	<i>75 min</i>	1:30 PM
	Ryan Hayward *	Hex: Two Books and One Puzzle	<i>6 min</i>	
	Jonathan Bobrow	Open-Source Physical Cellular Automata	<i>6 min</i>	
	Robert Bosch	Domino Steganography and Lenticular Dice Mosaics: Two Examples of Opt Art	<i>6 min</i>	
	George Hart *	Warped-Grid Jig-Saw Puzzles	<i>6 min</i>	
	Peter Knoppers	2e9s - An Egocentric View of Time	<i>6 min</i>	
3:30 PM	<i>Break</i>		<i>30 min</i>	3:30 PM
4:00 PM	Red Deupree	Tetraflexagons / Coloring the Penrose Pattern	<i>6 min</i>	4:00 PM
	Ann Schwartz	I am the Rhombus, Goo Goo G'Joob. Introducing the Rhombus Flexagon!	<i>6 min</i>	
	Michael Keith *	300+ Digits Of Pi From An (Almost) Ordinary Deck Of Cards	<i>6 min</i>	
	Daniel Kline	Playing with Puzzles: A Sample of What's New at the Julia Robinson Mathematics Festival	<i>6 min</i>	
	Koji Fujimoto *	The Actual 26 Integers for a Diophantine Representation Those Make Prime Number 2.	<i>6 min</i>	
	Alexa Meade	Adventures in Wonderland	<i>11 min</i>	
	Chaim Goodman-Strauss	Tooti Tooti!	<i>6 min</i>	
	Kate Jones *	StarHex-14, The beauty of polyform sets	<i>6 min</i>	
	Rodi Steinig	Dear Mister Gardner: Apocryphal Letters from Children to Martin Gardner	<i>6 min</i>	
5:15 PM				

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Gathering 4 Gardner 14 Presentation Schedule

Friday, April 8th, 2022

Morning Session: 8:30 AM - 12:00 PM

	Speaker	Title		
8:30 AM	Jason Rosenhouse	The Use and Abuse of Probability in Evolutionary Biology	6 min	8:30 AM
	Robert P Crease	From MG to QB	6 min	
	Erika Roldan	Guarding Art Galleries with Rooks and Queens	6 min	
	Carolyn Yackel	Using Mathematics to Inform Fiber Arts Work	6 min	
	Andrew Rhoda	The Slocum Mechanical Puzzle Collection at the Lilly Library	6 min	
	Steven Landsburg	Why Do People Stand Still on Escalators But Not on Stairs?	6 min	
	Paul Hildebrandt	Richert-Baer-Pelletier	12 min	
	Alba Marina Málaga Sabogal *	Paper Tori	6 min	
	Barry Cipra	A Toroidal Looping Puzzle	6 min	
	John Edward Miller	More Fun with Langford's Problem	6 min	
10:00 AM		<i>Break</i>	30 min	10:00 AM
10:30 AM	Mark Burstein	A Literary Englishman and the Scientific American: Lewis Carroll's Appearances in 'Mathematical Games'	45 min	10:30 AM
	Stanley S Isaacs	Lewis Carroll, Mathematician Rediscovered: Euclid and Non-Euclidean Geometry	6 min	
	Stuart Moskowitz	Lewis Carroll, Mathematician Rediscovered: Trigonometry, Recreational Math, Logic, and More	6 min	
	Chris Staecker	Gerber's Great Graphical Gizmos	6 min	
	Hideki Tsuiki *	Imaginary Cube Puzzles in classes	6 min	
	T. Arthur Terlep	Waving Goodbye to Berlekamp	6 min	
12:00 PM				12:00 PM

Afternoon Session: 1:30 PM - 5:30 PM

	Speaker	Title		
1:30 PM	Robert P Crease	Fourteen: Workhorse Wondr	6 min	1:30 PM
	Delicia Kamins *	Beware You All, Something Fourteen This Way Comes	6 min	
	Dana S Richards	"Are you a mathematician?"	25 min	
	Lauren Siegel	Making Math	6 min	
	R. William Gosper	The Dragon Function is way cooler than the "Dragon Curve".	8 min	
	Adam Rubin	Further Abracadoodads	6 min	
	Bjoern Muetzel *	Mirror Solids	6 min	
	Eleftherios Pavlides	Tetradecahedron as Palimpsest of the Monododecahedral 1-Parameter Family of the Pavlides Elastegrity	6 min	
	Peter Winkler *	Two Paradoxes of Slight Bias	6 min	
	Barney Sperlin	The Accountant	6 min	
	Spandan	Outsider Mathematics	6 min	
	Bandyopadhyay *			
	Bill Ames	Snowflake Formation	6 min	
3:30 PM		<i>Break</i>	30 min	3:30 PM
4:00 PM	Joe Buhler	Wildly Nontransitive Dice	6 min	4:00 PM
	Susan Goldstine	Mosaic Knitting Friezes: seventeen symmetries, minus three	6 min	
	Philipp Legner *	Mathigon - Textbook of the Future	6 min	
	Ricardo Teixeira	Magical Journey through Advanced Mathematics	6 min	
	Miquel Duran *	Quantum Science and Card Magic: from basic concepts to cryptography	6 min	
	David Kahn	Promoting Reliance on Facts and Logical Reasoning to Achieve Better Societal Outcomes	6 min	
	George Hart *	Warped-Grid Jig-Saw Puzzles	6 min	
	James Gardner	Growing up with Martin Gardner: Some Old and New Reflections	30 min	
5:30 PM				5:30 PM

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Gathering 4 Gardner 14 Presentation Schedule

Saturday, April 9th, 2022

Morning Session: 8:30 AM - 11:15 AM

	Speaker	Title		
8:30 AM	Tomas Rokicki *	Twizzle: Twisty Puzzle Simulator in JavaScript	6 min	8:30 AM
	Lucas Garron *	Browsers, Bluetooth, and VR: From Physical to Virtual Twisty Puzzles	6 min	
	Carl Hoff *	The Double Circle Real 6×6×6	6 min	
	David Plaxco	Knot Theory on the n*n*n Rubik's Cube	6 min	
	Robert Fathauer	Walkable Knots and Links	6 min	
	Karl Schaffer *	Dancing Topologically: Paths, Passes, and Puzzles	6 min	
	Chris Hibbert	Math in Ingress	6 min	
	Jeanine Meyer	Origami with Explanations	6 min	
	Akio Hizume *	Fibonacci Turbine	6 min	
9:45 AM		<i>Break</i>	30 min	9:45 AM
10:15 AM	Alexander Kernbaum	Seven Ways to Make an Ellipse — and One That Might be Useful	6 min	10:15 AM
	Aaron Siegel	Adventures in 3D Puzzle Printing	6 min	
	Nicole Dieker *	Music Performance	4 min	
	Tracy Drinkwater	SUMMthing about SUMM	6 min	
	Oded Margalit	Wrong Mathematical Proofs for Possibly Correct Claims	6 min	
	Scott Vorthmann	Customizing Zometool	6 min	
	Scott Vorthmann	A Quick Summary of Hands-on Mathematical Activities Participants May Enjoy During the Excursion Afternoon	10 min	
11:15 AM				11:15 AM

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Gathering 4 Gardner 14 Presentation Schedule

Sunday, April 10th, 2022

Morning Session: 8:30 AM - 12:00 PM

	Speaker	Title		
8:30 AM	Todd Wilk Estroff	The Ultimate Puzzle: a Psychiatrist Trying to Unravel Human Behavior	7 min	8:30 AM
	Dana Randall	Dumb Robots, Smart Algorithms	6 min	
	Lew Lefton	Mathematical Comedy	6 min	
	Sabetta Matsumoto	Mobius Cellular Automata Scarves	6 min	
	Delicia Kamins *	Fractal Top Down	6 min	
	Tiago Hirth	The First Recreational Mathematics Meeting	6 min	
	Cindy Lawrence	Million Millimeter March for MoMath	6 min	
	Jim Weinrich *	Does Conway's "Game of Life" Predict That the Speed of Light is Constant?	6 min	
	Arezoo Islami	Is the applicability of mathematics so "unreasonable" after all?	6 min	
	Haym Hirsh	The Soma Renaissance	6 min	
	Linda Green	Spheres of Influence for Martin Gardner	6 min	
10:00 AM		<i>Break</i>	30 min	10:00 AM
10:30 AM	Bob Hearn	Rectangular Unfoldings of Polycubes	6 min	10:30 AM
	David Richeson	Circle Square Illusions	6 min	
	Yossi Elran	John Conway's Doomsday Rules for the Hebrew Calendar	6 min	
	Stephen Macknik	Champions from The Best Illusion of the Year Contest	6 min	
	Henry Segerman	Geared Mechanisms	6 min	
	Nancy Blachman	COVID Misinformation Spreads because Many Don't Understand Math	6 min	
	Erik Demaine *	New Adventures in Puzzle Fonts	6 min	
	P. Justin Kalef	The Whys (and Hows) of a Philosophical Teacher	6 min	
	Douglas McKenna	Half-Domino Curves in an Interactive Math Book	6 min	
	Cassandra Darling	Deciphering Wonderlands - Creating a Martin Gardner Digital Library	6 min	
	T. Arthur Terlep	Introduction to Gather Town	10 min	
12:00 PM				12:00 PM

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