

# GATHERING 4 GARDNER 13

CONFERENCE PROGRAM

ATLANTA, GEORGIA

Wednesday, April 11th – Sunday, April 15th, 2018

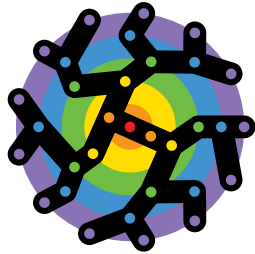
PROGRAM CONTENTS

General Information, Schedule of Conference Events & Presentations,  
List of Attendees, Gift Exchange Information, Acknowledgments

Presented by  The G4G Foundation

**This year the Gathering 4 Gardner celebrates its 25th year.**

**Created by Thomas M. Rodgers (1943-2012), the first Gathering was convened in January 1993. In honor of Tom, we welcome you to the 13th Gathering 4 Gardner.**



# **GATHERING 4 GARDNER 13**

... and welcome to Atlanta! We have a full schedule so please be prepared for your presentation sessions. If you have any questions or concerns, please speak with a G4G Board Member or our Creative Director, Katie LaSeur.

**Ritz-Carlton Hotel Address:** 181 Peachtree Street NE, Atlanta, GA 30303 USA

**Ritz-Carlton Hotel Phone Number:** 1-404-659-0400

## **G4G Board of Directors:**

<b>CHAIR</b>	–	Nancy Blachman
<b>PRESIDENT</b>	–	Erik Demaine
<b>VICE PRESIDENT</b>	–	Colm Mulcahy
<b>TREASURER</b>	–	Rob Jones
<b>MEMBER</b>	–	James Gardner
<b>MEMBER</b>	–	Mark Setteducati

For more information regarding the following topics, please speak with the individuals listed:

<b>REGISTRATION</b>	–	Katie LaSeur & Jodi Meusel
<b>EXHIBITION ROOM</b>	–	Dick Esterle
<b>SALES ROOM</b>	–	Robert Fathauer
<b>PRESENTATIONS</b>	–	Bob Hearn
<b>ENTERTAINMENT</b>	–	Mark Mitton
<b>GIFT EXCHANGE</b>	–	Katie LaSeur
<b>VOLUNTEERING</b>	–	Jodi Meusel
<b>YOUTH INITIATIVE</b>	–	Jim Wilder
<b>DECATUR ACTIVITIES</b>	–	George Hart
<b>GENERAL INQUIRIES</b>	–	<a href="mailto:support@g4gfoundation.org">support@g4gfoundation.org</a>

*Gathering 4 Gardner, Inc. is a 501(c)(3) educational non-profit organization.*

## GENERAL RITZ-CARLTON INFORMATION

**WiFi** – Free wireless internet access is available for the duration of G4G13 in all conference areas. The login is **Ritz\_Conf** and the password is **G4G13**. This information is listed on the inside of your name tag for quick reference. Free wireless access is also available in hotel rooms for G4G13 attendees staying at the Ritz-Carlton. Your login and password will be provided when you check in.

**Connection Instructions:** Turn on the wireless service on your device, and if prompted, connect to the wireless network. This should automatically bring up the login page. If not, open a web browser and type the following into the address bar: [login.globalsuite.net](http://login.globalsuite.net) and press enter. You should now see the login page. For assistance, call Ritz Guest-Tek anytime at **1-855-859-2151**.

**Lumen Bar** is located in the Ritz-Carlton lobby. The bar is open from 3 PM to midnight daily.

**Jittery Jones Coffee Shop** is located in the Ritz-Carlton lobby. It will be open on Wednesday, Thursday, and Saturday from 6 AM to 7 PM and open on Friday and Sunday from 6 AM to 1 PM.

**The Atlanta Grill** is located on the second floor of the Ritz-Carlton, directly up the stairs from the lobby. The AG is open seven days a week, from 6:30 AM to 2:30 PM and from 5:30 PM to 10 PM.

**Ritz-Carlton Hotel Map** – See page 7.

## FEATURED & PUBLIC PRESENTATIONS

G4G is pleased to announce that **Professor Ernő Rubik** will make a rare public appearance in Atlanta for the Gathering. “In conversation with Ernő Rubik” (**7 PM Wed, April 11, at Georgia Tech’s Clough Auditorium 152, 266 Fourth St NW, Atlanta, 30332**), will see the inventor of Rubik’s Cube discuss a wide range of topics from design and architecture to the role of curiosity in the human condition, as well as his four decades with the Cube. He will also present on “Cubic Tales” at the G4G13 conference.

G4G is pleased to announce that **Professor Doris Schattschneider** of Moravian College will make a public presentation in Atlanta, on “Math and M.C. Escher’s Art” (**8 PM Fri, April 13, at Decatur Presbyterian Church, 205 Sycamore St, Decatur, 30030**). Attendees will learn of how Martin Gardner’s April 1961 “Mathematical Games” column in *Scientific American* (on a then new geometry book by H.S.M. Coxeter) introduced readers to Escher’s symmetry drawings. Professor Schattschneider will also give a talk at the G4G13 conference on another fascinating tale arising out of Martin Gardner’s celebrated column in *Scientific American*. In “The Story of Marjorie Rice,” she will relate how a reader of that column with no math training was inspired to do some original research which led to investigations that are still ongoing.

G4G is pleased to announce that **Professor Manjul Bhargava** of Princeton University will make a public presentation in Atlanta on “Poetry, Drumming, and Mathematics” (**2:30 PM Sun, April 15, at Fulton County Central Library, One Margaret Mitchell Square, 30303**). Professor Bhargava is a winner of the Fields Medal as well as an accomplished tabla player. He will also speak on “Some Magical Numbers and Their Uses in Magic and Mathematics” at the G4G13 conference.

**See daily schedules for G4G13 conference Featured Presentation times.**

## WEDNESDAY, APRIL 11TH

**Sign-In & Registration**                      **3:30 PM – 10:00 PM**                      **Georgian Room, Ground Floor**  
Registration is on the ground floor of the Ritz-Carlton in the Georgian room near the lobby bar.  
Please bring your Gift Exchange items with you to registration if you didn't ship them in advance.

**Bar Bets, Cons, & Tricks**                      **Wednesday Evening**                      **Georgian Room, Ground Floor**  
Join host Jordan Gold for an informal show-and-tell session of bar bets, cons, and impromptu tricks.

**Vendor Tables Setup**                      **4:00 PM – 10:00 PM**                      **Sales Rooms, 2nd Floor**  
**Exhibitor Tables Setup**                      **4:00 PM – 10:00 PM**                      **Exhibition Room, 2nd Floor**  
Attendees with reserved Vendor Tables and Sales Tables are welcome to set up their spaces.  
Table selection is on a first-come, first-served basis.

## THURSDAY, APRIL 12TH

**Sign-In & Registration**                      **8:00 AM – 6:00 PM**                      **Conference Ballroom, Lower-Level**  
Starting Thursday morning, new arrivals should sign-in on the lower level before the presentations or during breaks. Exchange Gifts not shipped in advance should be dropped off when you sign-in.

All presenters should verify their audiovisual equipment needs with the hotel AV staff or with Bob Hearn before their presentation. Please do this in the morning if possible.

**Vendor Tables**                      **8:00 AM – 6:30 PM**                      **Sales Rooms, 2nd Floor**  
**Exhibitor Tables**                      **8:00 AM – 6:30 PM**                      **Exhibition Room, 2nd Floor**  
The Sales and Exhibition Rooms will be open throughout the day during conference breaks in the presentation schedule. It is up to each participating individual to decide when they will monitor their table and be available for sales or exhibit questions during these times.

**Presentation Sessions**                      **8:30 AM – 5:30 PM**                      **Conference Ballroom, Lower-Level**  
See facing page for a detailed schedule of talks.

**Youth Initiative Orientation**                      **6:00 PM – 6:30 PM**                      **Youth Lounge, Ground Floor**  
**Cocktail Hour**                      **6:00 PM – 7:15 PM**                      **Hotel Lobby Bar, Ground Floor**  
**Dinner & Cash Bar\***                      **Enter at 7:15 PM**                      **Conference Ballroom, Lower-Level**  
**Dessert Only Option\***                      **Enter at 8:45 PM**  
**Evening Entertainment:**

**Magic & Mentalism for Martin\***                      **Show will begin after dinner & dessert**  
Presented by mentalist Max Maven, a friend of Martin Gardner. Max will be joined by Carlos Vinuesa, a number theorist and magician from Madrid.

**Late Night Close-Up Magic Jam**                      **Show will begin 20 min. after Magic & Mentalism**  
G4G's close-up magicians will present at three different locations on the Grand Ballroom floor. These shows will be hosted by Jim Gardner, Mark Mitton, Dan Garrett, and Mark Setteducati.

**\*Special Event ticket required.**

# Presentation Schedule

Thursday, April 12<sup>th</sup>, 2018

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

**FEATURED PRESENTATION**

★ **YOUTH RECOMMENDED**

Speaker	Title	
8:30 AM	Brian Hopkins	Difference Dice 6min 8:30 AM
	Ryuhei Uehara	Design Schemes for Fair Dice 6min
	James Grime	Nontransitive dice for three players 6min
	Kenneth Brecher	Introducing the PiTOP 6min
	Henry Segerman and Sabetta Matsumoto	Design of hinged 3D auxetic mechanisms 6min
	David Nacin	Solutions to Klein Four Puzzles 6min
	Adam Rubin	Functional Impossible Objects 6min
	Jane Kostick ★	13 Piece Puzzles 6min
	Bernardo Recaman ★	Ramanujan Sums 6min
	Akio Hizume	Fibonacci Jigsaw Puzzle etc. 6min
	Hirokazu Iwasawa	Classic False Coin Puzzles without Mathematical Induction 6min
	<i>Break</i> 30min	
	Doris Schattschneider	The Story of Marjorie Rice 45min
	Jaap Scherphuis	Developments in Pentagonal tilings 5min
	Bob Hearn	There are only 15 6min
	Laura Taalman ★	Printing Perfect Pentagons 6min
	Kate McKinnon	Engineering and Art: The Magic of the Kaleidocycle and the Contemporary Geometric Beadwork project 6min
	Jordan Gold and Elan Lee ★	How we built the world's smartest computer with a few pieces of cardboard and a pineapple 10min
12:00 PM		12:00 PM

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

Speaker	Title	
1:30 PM	John Rausch, Nick Baxter, and Bill Cutler	A Fireside Chat with Stewart T. Coffin 27min 1:30 PM
	David Michael Greene	Self-Construction in Conway's Life 6min
	Adam P. Goucher	Evolving lifeforms on lattices 6min
	Tomas Rokicki	HashLife 6min
	James Emmett Gardner	Growing up Around Martin Gardner: Another Round 30min
	Cindy Lawrence	Play Truchet: Using the Truchet tiling to engage the public with mathematics 6min
	R. William Gosper	True planefills versus "Spacefilling Curves" 6min
	Gary Antonick	Thirteen Bounces 5min
	Yossi Elran ★	G4G's Celebration of Mind -- exciting the public and expanding MG's legacy 4min
	Louis Hirsch Kauffman	Rope Tricks and Topology 6min
	<i>Break</i> 30min	
	Eleftherios Pavlides	The Geometry of Motion of the Chiral Icosahedral Hinge Elastegrity 6min
	Robert Bosch	Figurative Subgraphs 6min
	Debra A Coombs	Geometry in five-dimensions: Building quasicrystals from Penrose tiling 6min
	Gwen Fisher ★	Beaded Tessellations of Polyhedra and Penrose Tilings 6min
	Jim Propp ★	You Can't Count to Thirteen ... 6min
	Spandan Bandyopadhyay	Hexprimes 6min
	Erik Demaine	Sliding Coins 6min
	Gabriel Doran Kanarek	Repetitive Patterns in the Juggler Sequence 6min
	Alex Bellos	Puzzle Ninja 5min
	William Gasarch	The Muffin Problem 5min
	Stephen Wolfram	TBA 6min
5:30 PM		5:30 PM

**Presentation Abstracts Available Online: [www.gathering4gardner.org/g4g13-abstracts.pdf](http://www.gathering4gardner.org/g4g13-abstracts.pdf)**

## FRIDAY, APRIL 13TH

**Sign-In & Registration**                      **8:00 AM – 12:00 PM**                      **Conference Ballroom, Lower-Level**

New arrivals should sign-in on the lower level before the presentations or during breaks. Exchange Gifts not shipped in advance should be dropped off when you sign-in. Exchange Gifts must be dropped off before 12 PM on Friday, April 13th.

All presenters should verify their audiovisual equipment needs with the hotel AV staff or with Bob Hearn before their presentation. Please do this in the morning if possible.

**Vendor Tables**                                      **8:00 AM – 12:00 PM**                                      **Sales Rooms, 2nd Floor**  
**Exhibitor Tables**                                      **8:00 AM – 12:00 PM**                                      **Exhibition Room, 2nd Floor**

The Sales and Exhibition Rooms will be open in the morning during conference breaks in the presentation schedule. It is up to each participating individual to decide when they will monitor their table and be available for sales or exhibit questions during these times.

**Presentation Sessions**                      **8:30 AM – 11:15 AM**                      **Conference Ballroom, Lower-Level**

See facing page for a detailed schedule of talks.

**Decatur Offsite\***                      **Hosted by Sarah Garvin Rodgers**                      **Decatur, Georgia**

See Decatur Offsite Program for detailed schedule and event information.

**Offsite Shuttle Buses\***                      **Depart 11:30 AM**                      **Meet in the Ritz Lobby**  
**Bus Between Decatur / Ritz**                      **~Every 60 Min. All Day**

**BBQ Lunch Buffet\***                      **12:00 PM – 2:00 PM**                      **East Howard Ave, Decatur**  
**G4G Sculpture & Activities\***                      **12:00 PM – 6:00 PM**

**Happy Hour Reception\***                      **6:00 PM – 8:00 PM**                      **Color Wheel Art Studio**

**Doris Schattschneider**                      **Doors Open 7:30 PM**                      **Decatur Presbyterian Church**  
**M.C. Escher Public Lecture**

**Last Bus Leaves E Howard Ave for the Ritz**                      **8:30 PM**                      **See Map in Decatur Program**  
**Last Bus Leaves the Church for the Ritz**                      **10:30 PM**                      **For Shuttle Bus Locations**

Sarah Garvin Rodgers invites the G4G community to her new home and art gallery, *Different Trains*, in the artistic neighborhood of Decatur. We're pitching a tent in the street, serving BBQ, building sculptures organized by George Hart, and creating opportunities for participants to socialize and explore this vibrant community. As the sun sets, attendees will enjoy a Happy Hour reception at the Color Wheel art studio followed by dinner at their choice of Decatur establishment.

**\*Special Event ticket required.**

# Presentation Schedule

Friday, April 13<sup>th</sup>, 2018

**FEATURED PRESENTATION**

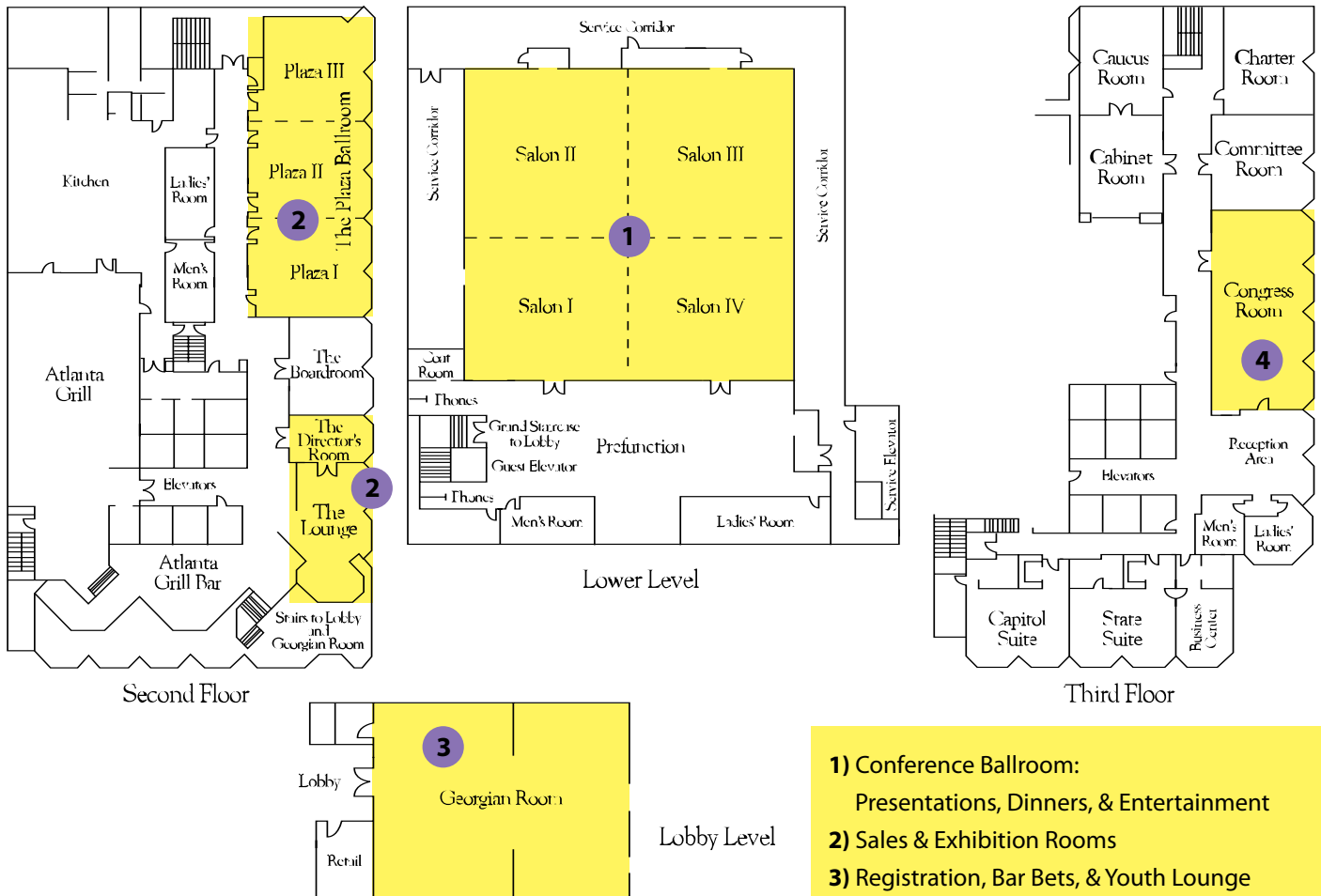
★ **YOUTH RECOMMENDED**

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

	Speaker	Title		
8:30 AM	Miguel Palomo	★ The Sudoku Ripeto Family	5min	8:30 AM
	James Lee	★ A Slick Solution to the Tax Man Problem	6min	
	Elwyn Berlekamp	Sol Golomb tribute video	6min	
	Donald Bell	★ Loyd Polyominoes	6min	
	Aaron Siegel	Polyformer	6min	
	Tom van der Zanden	Packing polyominoes into a 3-by-n box is as hard as it gets	6min	
	Anany Levitin	Polyomino Puzzles and Algorithm Design Techniques	5min	
	Stewart Temple Coffin	Martin's Menace	4min	
	Robert P Crease	★ Super Thirteen: Welcome to G4G's Teenage Years!	5min	
	Colin Wright	★ Thirteen - Insufficiently Maligned	5min	
	<i>Break</i>			
			30min	
	Erno Rubik	Cubic Tales	45min	
	George Hart	★ Mathematical Construction Activities During the Excursion	10min	
11:15 AM				11:15 AM

Presentation Abstracts Available Online: [www.gathering4gardner.org/g4g13-abstracts.pdf](http://www.gathering4gardner.org/g4g13-abstracts.pdf)

## RITZ-CARLTON MAP



- 1) Conference Ballroom: Presentations, Dinners, & Entertainment
- 2) Sales & Exhibition Rooms
- 3) Registration, Bar Bets, & Youth Lounge
- 4) Thank You Lunch & Gift Exchange Bag Pickup

# SATURDAY, APRIL 14TH

**Sign-In & Registration**                      **8:00 AM – 6:00 PM**                      **Conference Ballroom, Lower-Level**

New arrivals should sign-in on the lower level before the presentations or during breaks.  
Exchange gifts will not be accepted after 12 PM on Friday, April 13th.

All presenters should verify their audiovisual equipment needs with the hotel AV staff or with Bob Hearn before their presentation. Please do this in the morning if possible.

**Vendor Tables**                                      **8:00 AM – 6:30 PM**                      **Sales Rooms, 2nd Floor**  
**Exhibitor Tables**                                      **8:00 AM – 6:30 PM**                      **Exhibition Room, 2nd Floor**

The Sales and Exhibition Rooms will be open throughout the day during conference breaks in the presentation schedule. It is up to each participating individual to decide when they will monitor their table and be available for sales or exhibit questions during these times.

**Thank You Lunch\***                                      **12:00 PM – 1:15 PM**                      **Congress Room, 3rd Floor**

**Gift Exchange Bag Pickup**                      **2:00 PM – 7:00 PM**                      **Congress Room, 3rd Floor**

**Presentation Sessions**                      **8:30 AM – 5:30 PM**                      **Conference Ballroom, Lower-Level**

See facing page for a detailed schedule of talks.

**Cocktail Hour**                                      **6:00 PM – 7:15 PM**                      **Hotel Lobby Bar, Ground Floor**  
**Dinner & Cash Bar\***                                      **Enter at 7:15 PM**                      **Conference Ballroom, Lower-Level**  
**Dessert Only Option\***                                      **Enter at 8:45 PM**

**Evening Entertainment:**

**G4G13 Gala Show\***                      **Show will begin after dinner & dessert**

Our traditional closing night show featuring G4G's own stars and surprise guests, hosted by Mark Mitton.

**\*Special Event ticket required.**



# Presentation Schedule

Saturday, April 14<sup>th</sup>, 2018

**FEATURED PRESENTATION**

★ **YOUTH RECOMMENDED**

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

	<b>Speaker</b>	<b>Title</b>		
8:30 AM	Akira Nishihara	★ Geometric toys	6min	8:30 AM
	Kate Jones	★ Lucky 13	6min	
	Scott Kim	Motley Dissections	6min	
	Rochelle Kronzek Miller	Raymond and Martin -- Pioneers and Legends	30min	
	Kokichi Sugihara	★ Evolution of Impossible Objects	6min	
	Stephen Macknik	★ Champions of Illusion	6min	
	Alexa Meade	TBA	5min	
	Sabetta Matsumoto and Henry Segerman	Non-euclidean virtual reality	12min	
	<i>Break</i>		30min	
	<b>Manjul Bhargava</b>	Some Magical Numbers and Their Uses in Magic and Mathematics	45min	
	Robert P Crease	★ How is Science Denial Possible?	6min	
	Mike Naylor	The Last Crumb	6min	
	Derrick Chung	An Elegant Solution to Rusduck's "A Study in Stud"	6min	
	Vladimir Bulatov	Cross sections of three dimensional hyperbolic tilings	6min	
12:00 PM	Elwyn Berlekamp	Gallimaufry of Games	6min	12:00 PM

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

	<b>Speaker</b>	<b>Title</b>		
1:30 PM	Dana S Richards	★ Martin Gardner, Annotator	30min	1:30 PM
	Thomas Francis Banchoff	Foxtrot Half-Empty Half-Full Problem, including 13	6min	
	Theodore Gray	★ Mechanical Gifs	6min	
	Dana Mackenzie	2184 (Oh, the Absurdity)	6min	
	Paul Hidebrandt and Amina Buhler-Allen	A tribute to Marc Pelletier	20min	
	George I. Bell	The Sailing Stones of Death Valley	6min	
	Howard I Cannon	Demonstrating math with carefully drawn triangles in JavaScript	6min	
	Raymond Hall	★ Physics Fun: The use of Social Media as a Museum of Science and Math	6min	
	Margaret Kepner	4 x 13	6min	
	Duane A Bailey	A Grammatical Approach to the Curling Number Conjecture	6min	
	<i>Break</i>		30min	
	Adam Atkinson	★ Medieval French Poetry	5min	
	Tanya Khovanova	Crypto and Fractal Word Searches	6min	
	Colm Mulcahy	★ Martin Gardner Word Play	5min	
	Joshua Pines	Scrabble Seven-letter Words	6min	
	Tom Bessoir	Prime Perfect	6min	
	Rik van Grol	Balance puzzles -- you either love them or curse them	5min	
	Stuart Moskowitz	★ Lewis Carroll Should Have Taught Sixth Grade Math	6min	
	Pete McCabe	Persistimis Possessiamo	6min	
	Robert Fathauer	★ Knotting and Numbering Kite Tiling Rosettes	6min	
	Robert W Vallin	Maverick Solitaire and Three-Card Poker	6min	
	Lyman Porter Hurd	Kadon's Dezign-8	6min	
5:30 PM	Nancy Blachman	How I Finagled nearly 13 Invitations to White House Events in 2016	5min	5:30 PM

**Presentation Abstracts Available Online: [www.gathering4gardner.org/g4g13-abstracts.pdf](http://www.gathering4gardner.org/g4g13-abstracts.pdf)**

# Presentation Schedule

Sunday, April 15<sup>th</sup>, 2018

★ YOUTH RECOMMENDED

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

	<b>Speaker</b>	<b>Title</b>	
8:30 AM	Dick Esterle	ALMOST 13 - ICOSAHEDRON let me count the ways	6min
	Gerard Westendorp	Hinged polyhedra and hinged tessellations.	6min
	Yossi Elran ★	13 ways to tie a knot in a strip of paper	5min
	Peter Knoppers	The elusive 13 piece complete set puzzle	5min
	Michael Tanoff	Mr. Apollinax's Wedding Ring	6min
	Susan Goldstine	Symmetry Samplers	6min
	Gergo Kiss	The Derivation of the Spidron Formula	6min
	Ricardo Teixeira	Si Stebbins and Group Theory	6min
	Ann Schwartz	Making Waves: The Pentaflexagon	6min
	Andrew John Rhoda	The Slocum Mechanical Puzzle Collection at the Lilly Library	6min
	Colin Beveridge	An Old-Timey Cipher	6min
	Karl Schaffer ★	Edgy Puzzles	6min
	Hilarie Orman ★	Mental Factoring	6min
	Carolyn Yackel	Enough Lace Patterns for Fibonacci	6min
	Henry Strickland	Rainy Day Stories (in the Temporal Logic called D)	6min
	Oded Margalit	PonderThis	6min
	Ben Chaffin	A Tale of Two Powers: Finding zeros in powers of 2	6min
	ET Trigg	Bidding in Contract Bridge considered as a communication channel	6min
	Greg N. Frederickson	Hidden in Plane Sight: the Extraordinary Vision of Ernest Irving Freese	6min
	Ryan William Morrill	Playing nice with a weighted coin	6min
	Lucas Garron	The Perfect Easing Function	6min
	Ron Taylor	Mathematics of color addition games	6min
	Roger Russell	Misconceptions of Measurement: Time, Space and Numbers	5min
11:30 AM	Manderscheid		

Afternoon Session: 12:30 PM - 2:00 PM

	<b>Speaker</b>	<b>Title</b>	
12:30 PM	James Joseph Solberg	(Phi)ve is Magic	6min
	Robert Munafo	Using the Analogue Approximation Finder	6min
	David Hall	Recipe for a 'bola Honeycombs	6min
	George Hart ★	Knotted Bracelet	6min
	William G Ames	Extending the 10958 problem	6min
	Nathaniel Wing Segal ★	Deconstructing Magic Squares	6min
	Masayoshi Iwai	Tilings of Equilateral Tridecagons	6min
	Carl N. Hoff	From Untouchable 11 to Hazmat Cargo	6min
	Yoshiyuki Kotani	Tiling of 123456-edged hexagon	6min
	Charles Bernard	★ How Martin Gardner Helped Me Keep My Sanity as a Math Teacher for 50 Years	6min
	Sonenshein		
	Barney Sperlin	How Safe Is It?	6min

Presentation Abstracts Available Online: [www.gathering4gardner.org/g4g13-abstracts.pdf](http://www.gathering4gardner.org/g4g13-abstracts.pdf)

## SUNDAY, APRIL 15TH

**Sign-In & Registration**                      **8:00 AM – 1:00 PM**                      **Conference Ballroom, Lower-Level**

New arrivals should sign-in on the lower level before the presentations or during breaks.  
Exchange gifts will not be accepted after 12 PM on Friday, April 13th.

All presenters should verify their audiovisual equipment needs with the hotel AV staff or with Bob Hearn before their presentation. Please do this in the morning if possible.

**Vendor Tables**                                      **8:00 AM – 1:00 PM**                                      **Sales Rooms, 2nd Floor**

**Exhibitor Tables**                                      **8:00 AM – 1:00 PM**                                      **Exhibition Room, 2nd Floor**

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**Presentation Sessions**                      **8:30 AM – 2:00 PM**                      **Conference Ballroom, Lower-Level**

See facing page for a detailed schedule of talks.

**Gift Exchange Bag Pickup (cont.)**                      **7:00 AM – 8:30 AM**                      **Congress Room, 3rd Floor**

## LIST OF ATTENDEES

Attendee names and emails have been redacted from public version of the conference program. If you attended G4G13, you can view the complete program by logging in to the registration website. The program link is at the top of the Overview page.

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## GIFT EXCHANGE INFORMATION

The Gift Exchange began at G4G1 with Scott Kim assembling a collection of papers by participants and presenting them to Martin Gardner. The exchange is a tribute to the shared curiosity that Martin fueled and we place special emphasis on creativity and originality. The gift should be something you think Martin would have liked.

### **Rules of the Exchange:**

For complete outline of the gift exchange details, visit:

[www.gathering4gardner.org/gift-exchange-details](http://www.gathering4gardner.org/gift-exchange-details)

To receive other people's gifts, you must give one yourself or as a team (to all participants). Two people presenting one gift may receive two gift bags if you provide both names when you deliver your gifts. The organizers are the final arbiters of the exchange.

### **G4G13 Physical Exchange Gifts:**

Physical exchanges (e.g., puzzles, models, artwork, etc.) can be picked up at the Gathering on the 3rd floor, Congress Room, starting on Saturday at 2 PM and continuing on Sunday morning. Submissions must be received by 12 PM on Friday, April 13th to ensure inclusion. It is your responsibility to get your exchange to the conference organizers on time.

### **G4G13 Exchange Book:**

The Exchange Book is for those who wish to submit papers as their exchange gift and also for those who wish to include descriptions, instructions, and/or solutions, to go with their physical gifts. The book will be published by The G4G Foundation after the Gathering concludes. The board has elected to waive fees for inclusion in the exchange book, though we reserve the right to charge attendees for shipping costs when the books are ready to be delivered.

Your submission to the G4G13 Exchange Book grants Gathering 4 Gardner copyright permission to reprint the submission only in bound complete volumes, and not as individual articles. The book will also be published on the G4G website with permission from the contributing authors (any papers not granted permission will still appear in the print version of the book but will be excluded from the online version).

All submissions MUST be confirmed by the organizers by 12 PM on Friday, April 13th to participate in the exchange. However, the deadline for submitting final papers for the G4G13 Exchange Book is yet to be determined. We will notify everyone who participated in the Gift Exchange of the deadline via email.

### **Submission of Files:**

Files can be uploaded through the G4G13 registration website: [www.conftool.com/g4g13](http://www.conftool.com/g4g13) (login and click on "Your Submissions").

# ACKNOWLEDGMENTS

Gathering 4 Gardner would like to thank the following for their support of the foundation, and its conferences and programs.

## **Polymath Circle:**

Bill Ritchie – ThinkFun  
Jade Vinson

## **Magicians Circle:**

Thomas Banchoff  
Irl Bivens  
Robert Bosch  
David Cohen  
Frederick Henle  
Chris Hibbert  
The Martin Gardner  
Literary Interests  
General Partnership  
Mickey McManus  
Aaron Siegel  
James Stephens  
Anonymous (1)

## **Committees:**

### **Program Committee –**

Bob Hearn (Chair), Robert Vallin,  
Colm Mulcahy, & Jordan Gold

### **Evening Entertainment Committee**

– Mark Mitton (Chair) & Mark  
Setteducati

### **Decatur Offsite Committee – Jodi**

Meusel (Coordinator), Colm Mulcahy,  
Rob Jones, Shawn Vinson, Sarah  
Garvin Rodgers, George Hart (Sculpture & Activities Coordinator), & Dick Esterle

### **Youth Initiative Committee – Jim Wilder (Coordinator), Jim Propp, & Tiago Hirth**

### **Volunteer Organizing Committee – Jodi Meusel (Coordinator) & Bee Bordeaux**

### **Exhibition Room Coordinator – Dick Esterle**

### **Sales Room Coordinator – Robert Fathauer**

### **Nomination Review Committee – Katie LaSeur (Coordinator), John Miller, Margaret Kepner, Robert Vallin, Stan Isaacs, Susan Goldstine, & Yossi Elran**

...and many thanks to all of the volunteers and attendees for making this such a worthwhile event. We look forward to seeing you at the next Gathering (G4G14 in 2020).

The G4G Foundation would also like to acknowledge its Co-Founders Elwyn Berlekamp and Mark Setteducati for their continuing vital support of the G4G movement.

## **Legacy Circle:**

Elwyn and Jennifer Berlekamp Foundation  
Nancy Blachman – JRMF.org  
Simons Foundation  
Sarah Garvin Rodgers  
Anonymous (1)

## **Mathematicians Circle:**

Rob Jones  
Colm Mulcahy  
Dave Rossetti & Jan Avent  
Henry Strickland

## **Writers Circle:**

Adam Atkinson  
Nick Baxter  
Bronna Butler  
Joe Cassavaugh  
Timothy Chow  
Tom Davis  
Todd Estroff  
Barry Hayes  
Frederick Henle  
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Stanley Isaacs  
Josh Jordan  
Margaret Kepner  
Maria Levitin  
Andy Liu  
Tomas Rokicki  
Anna Sheen  
William Tunstall-Pedoe  
Greg Whitehead

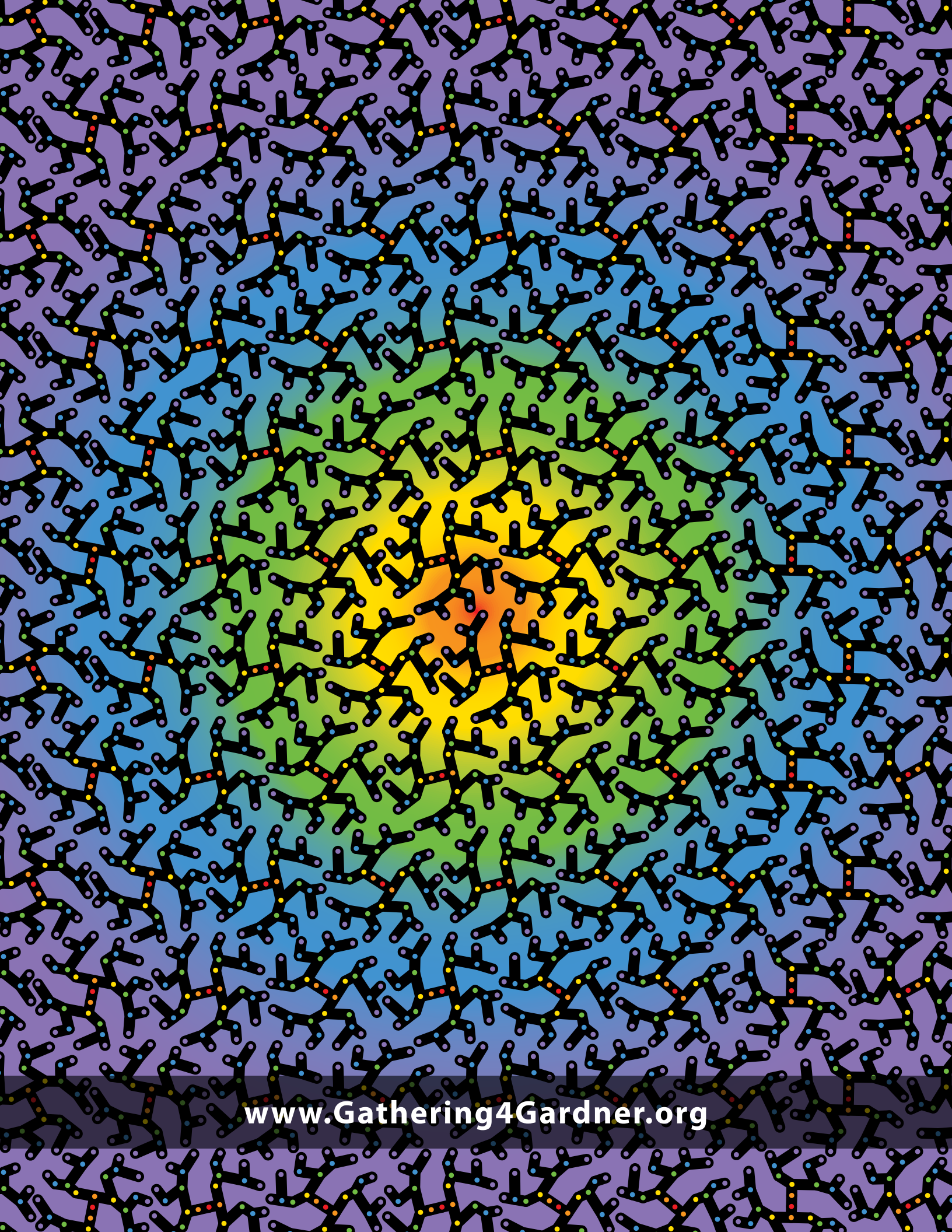
## **Puzzlers Circle:**

Gerry Ohrstrom  
Hilarie Orman & Richard  
Schroepel  
Gwen Roberts  
Rick Sommer  
Norton Starr  
Stephen Turner  
Anonymous (2)

## **Skeptics Circle:**

Sorin Alexe  
Pierre Berloquin  
Simon Bexfield  
Jim Bumgardner  
Joe Celko  
Robert Crease  
Yossi Elran  
Roger Friedman  
Robert Fuhrer  
Abel Garcia  
William Gasarch  
Andrea Gilbert  
Rik van Grol  
Masayoshi Iwai  
Craig Kaplan  
Louis Kauffman  
Peter Knoppers  
Ronnie Kon  
John Miller  
Paul & Catherine Mohr  
Craig Newswanger  
Marti Reis  
Peter Renz  
Will Shortz  
David Singmaster  
Charles Sonenshein  
Robert Vallin  
Anonymous (7)





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