

Date: Thursday, 29/Mar/2012

8:30am **ThuAM1: Thursday AM Early**
- Location: **Ritz Carlton Large Meeting Room**

10:00am *Presentations*

What to do with a rubber band

Hart, George

Update on North America's only Museum of Mathematics

Lawrence, Cindy

Flexible Polyforms

Muniz, Alexandre

The Whimsical Side of Martin Gardner

Sonenshein, Charles

10 flexes on a flexagon

Sherman, Scott

Ponder-This

Margalit, Oded

It's Not Music, It's Theory

Orman, Hilarie

Clouds in My Coffee / Pattern Recognition or Wake up & Photo Your Coffee!

Goldklang, Lew

10 MatheMagics for G4G10

Kauffman, Louis

Limited placement of Polyominoes

Golomb, Solomon W.

Celebration of Mind Party for Chicago

Railing, Max

10:30am **ThuAM2: Thursday AM Late**
- Location: **Ritz Carlton Large Meeting Room**

12:00pm *Presentations*

The Looking Glass Motion Effect

Brecher, Kenneth

The Cover and Column of the Feb 1971 Scientific American

Smith, Alvy Ray

Fruitlooper

Crease, Robert

Virtual Mechanical Puzzles

van Grol, Rik

Organising a successful national math week

Gill, Eoin; Donegan, Sheila

"Go First" Dice

Harshbarger, Eric

Fractal graphs by iterated substitution

Segerman, Henry

Let's play a concentration game with a few cards

Iwasawa, Hirokazu

Fads and Fallacies in the Name of Science and pseudoscience in China

Danyang, Chen

Martin and Lewis

Burstein, Mark

A Close Encounter With Near Misses

Kaplan, Craig

1:30pm

ThuPM1: Thursday PM Early

Location: **Ritz Carlton Large Meeting Room**

-

3:30pm

Presentations

Meet the Attendees

Pegg Jr., Ed

Teaching Math With Logic Puzzles

Hollingsworth, Blane

Mathematical Bead Weaving

Fisher, Gwen Laura

2x1 rectangles and domes

Harriss, Edmund

Truchet Tile Mosaics

Bosch, Robert

The Secretary Problem from the Applicants Point of View

Glass, Darren

10 Amazing Geometry Machines plus 2 more

Esterle, Richard

Computing and the Art of the Letter X

Szczepanski, Amy

Stereographic Photography and Numerology

Torrence, Bruce

4+X Symmetries in Temari

Yackel, Carolyn

What I Learned From Hanging Out With Creationists

Rosenhouse, Jason

A Trip to Euclid Avenue, Incorporating the final days before doomsday

Conway, John Horton

4:00pm

ThuPM2: Thursday PM Late

Location: **Ritz Carlton Large Meeting Room**

-

5:30pm

Presentations

G4G - CoM

Thompson, Tanya

A Deep Dive into Game Club

Ritchie, Bill

16 is Not Enough: The Minimum-Clue Conjecture for Sudoku

Taalman, Laura

See-saw Swap Solitaire
Roby, Tom; Propp, James; Linton, Steven; West, Julian

Live anamorphoses
Blasco, Fernando

Fun with Sierpinski's Gasket
Gosper, R. William; Ziegler Hunts, Julian

How Many Powers of 2 Can Be Subset Sums of a Set of Size n?
Moulton, David

Teaching Bright Kids Math Using Hackenbush
Davis, Tom

X-only Tic-Tac-Toe
Plambeck, Thane

Wrapping a Box with a Riboon
Henle, James; Henle, Frederick

Generic Numerical Challenges
Wainwright, Robert

Date: Friday, 30/Mar/2012

8:30am **FriAM1: Friday AM Early**
- Location: **Ritz Carlton Large Meeting Room**

10:00am *Presentations*

Ten Tetrahedra Emerge
Torrence, Eve

Space-Filling Curves with Space-Filling Borders
McKenna, Doug

Have a "GO" at "LIFE"
Elran, Yossi

Imaginary Cube Puzzles.
Tsuiki, Hideki

Ten Piece Icosahedron Puzzles
Bell, George

An A* Sales Pitch, with chestnuts
Atkinson, Adam

The Bicolored Hexahexaflexagon
McLean, Thomas Bruce

What Shape is a Tree?
Miller, John

Vanishing Leprechauns, Kermit the Frogs, and Buildings
Chartier, Tim

Patterns II: Inductive logic game & tool for research training.
Schindler, Jay; Hurd, Lyman

Progressively More Difficult Polyomino Trays
Waite, William

10:30am **FriAM2: Friday AM Late**
- Location: **Ritz Carlton Large Meeting Room**

12:00pm *Presentations*

Powers of Ten
Crease, Robert; Crease, Alexander

Rot, Ten
Oberg, Bruce

Anti - G
Sandfield, Robert

Sleights of Mind

Origins of mind
Macknik, Stephen

What the Neuroscience of Magic Reveals About our Brains
Martinez-Conde, Susana

Illusions, attention, and the limits of awareness
Simons, Dan

Gestalt Magic: The Perceptual Foundations of Stage Illusion
Barnhart, Anthony

1:30pm **FriPM1: Friday PM Early**
- Location: **Ritz Carlton Large Meeting Room**

3:30pm *Presentations*

Margaret Wertheim's G4G10 Talk
Wertheim, Margaret

Twenty Moves Suffice for Rubik's Cube
Rokicki, Tomas; Kociemba, Herbert; Davidson, Morley; Dethridge, John

Developing the Over The Top 17x17x17 puzzle
van Deventer, Oskar

Definitions in Twisty Puzzles
Cohen, Bram

Designing and building twisty puzzles
van der Zanden, Tom

Beyond Rubik's Cube
Hoffman, Paul

How Do You Scramble a Puzzle?
Garron, Lucas

SUPERFLEXAGON!
Schwartz, Ann

Infinite Regular Polyhedra
Green, Melinda

Why Math Education Needs Puzzles
Kim, Scott

Fun with soap films and Platonic Solids
Becker, Bob

4:00pm **FriPM2: Friday PM Late**
- Location: **Ritz Carlton Large Meeting Room**

5:30pm *Presentations*

Pablos Holman's G4G10 Talk
Holman, Pablos

Folding the Hyperbolic Crane
Lang, Robert J.; Alperin, Roger C.; Hayes, Barry

Large Scale Modular Origami
Mosely, Jeannine

Tilings with pentagons
Scherphuis, Jaap

Geometrical shapes made with magnetic balls
Timmermans, Edo

Reversing the Game of Life for Fun and Profit
Bickford, Neil

Ten powerful ideas, iambically defined
Jones, Kate

Date: Saturday, 31/Mar/2012

8:30am **SatAM1: Saturday AM Early**
- Location: **Ritz Carlton Large Meeting Room**

10:00am

Presentations

Medical Diagnostics, Bayes' Theorem, and Nomography

Marasco, Joe

Cyclic Paths Inside Platonic Shells

Daniel, Wayne

Fortunatus's Purse: G4GX is in the bag (along with everything else)

Goldstine, Susan

"Loopy Love" -- A Twisted Tale on a Mobius Strip

Cipra, Barry

The self-wiring multi-state maze

Gilbert, Andrea

Polyform Puzzler, New Polyforms, and Recent Results

Goodger, David J.

A Ten-Cell Ornament

Banchoff, Thomas

10:30am

SatAM2: Saturday AM Late

Location: **Ritz Carlton Large Meeting Room**

-

12:00pm

Presentations

Quantum Entanglement: Real but Mysterious

Perkowitz, Sidney

Visualizing the 10-Dimensional 11-Cell

Sequin, Carlo

The Venus Scale

Schwabe, Caspar

On Regular Linked Structures

Jespersen, Bjarne

Quasi-Crystal Pavilion

Hizume, Akio

Ten Triangle Tensegrity

Swedenborg, Peter

Visual Pattern Generators

Edmark, John

Drop City, Domes and Zomes

Hildebrandt, Paul

1:00pm

SatPM: Saturday PM at Tom's House

-

5:00pm

Date: Sunday, 01/Apr/2012

8:30am

SunAM1: Sunday AM Early

Location: **Ritz Carlton Large Meeting Room**

-

10:30am

Presentations

Grand Bowties - the Aerobics for a brain

Zivkovic, Zdravko; Zivkovic, Teodora

Nob's puzzle collection and my paper puzzle

Uehara, Ryuhei

Drawing one-tenth similar triangle

Hosoya, Haruo

Algorithmic Puzzle Paradoxes

Levitin, Anany

Tricky Arithmetics

Khovanova, Tanya

Shogi Problems and Shogi Programs

Kotani, Yoshivuki

The Daughters of Hypatia: Circles of Mathematical Women
Schaffer, Karl

Circo Matemático. Another World Record
Hirth, Tiago; Silva, Jorge Nuno

Geometry of Soccer
Carvalho, Alda; Santos, Carlos P.; Silva, Jorge N.

Latin Erdos
Silva, Jorge Nuno

Higher dimensional images connected to gravity and quantum field theory
Ocneanu, Adrian

Design of non-linear writing systems
Sai, .

Tangled Bands
Abel, Zachary

11:00am **SunAM2: Sunday AM Late**
- Location: **Ritz Carlton Large Meeting Room**

1:00pm

Presentations

Novel Educational Toys/Puzzles to Teach Multiplications to Grade School Children
Miura, Kenichi

Kite Spiral
Iwai, Masayoshi

Photographic Fractal Trees
Fathauer, Robert

Points of Intersection
Taimina, Daina

The snake and the hunter
Recaman, Bernardo

Complexity of Inaba's coin--covering problem
Hearn, Bob

Upper Bound for Inaba's Coin-Covering Problem
Hearn, Bob

Math Education from a Fresh(er) Perspective
Brown, Ethan

What Would Martin Tweet?
Mulcahy, Colm

Room X
Richards, Dana

The Making of the 36 Cube
Niederman, Derrick

Non-Euclidean Board Games
Hawksley, Andrea Johanna

Counting the Rationals
Calkin, Neil

2:00pm **Gift Exchange: G4G10 Gift Exchange**

-

3:00pm

Presentations

"It's a Twister!"
Udall, Timothy

"The Elusive "E & Card" .
Rowett, Tim

/dev/joe's Pythagorean Puzzle
DeVincentis, Joseph

1/2+1/2-1=0

Pereira dos Santos, Carlos

10 MatheMagics for G4G10

Kauffman, Louis

10x1 in a cube

Knoppers, Peter

12-Card Star Sculpture Puzzle

Hart, George

2 x ribbon spread turnover = 1 x tractrix racer

Polster, Burkard

2012 EQUATIONS

Halici, Emrehan

3 LIGHTS OUT Puzzles for G4G10

Shader, Leslie; Shader, Bryan; Ipiña, Lynne

4 x 4 paper folding puzzle

Becker, Bob

4G4G4G10

Silva, Jorge Nuno

A "Stressful" Puzzle

Abel, Zachary

A 10-Dimensional Jewel

Sequin, Carlo

A Porous Aperiodic Decagon Tile

Bailey, Duane; Zhu, Feng

A Self-Negative Half-Space-Filling, Space-Filling Curve

McKenna, Doug

A Simple Time Machine

Engel, Doug

A Ten-Cell Ornament

Banchoff, Thomas

A-Z cubed

Manderscheid, Roger

Acrylic Decagram Puzzle

Muniz, Alexandre

Almost Symmetric

Bosch, Robert

Another Chess Mystery of Sherlock Holmes

Butters, Jerry

Anti - G

Sandfield, Robert

Backwards addition

Butler, Steve

Balance Puzzles

Hess, Dick

Bayes' Theorem Nomogram

Marasco, Joe

Blocked Bottom and Top Puzzle

Strout, Henry & Jeanne

Borders: a variant of Dots & Boxes

Colwell, Jason Andrew

Twos the Night Before Gardner
Terlep, Timothy

Bowties
Jones, Kate

Brainfreeze Sudoku variation puzzles
Taalman, Laura; Riley, Philip

Celebration of Mind Party for Chicago
Railing, Max

Chocolate Chip Pi
Chartier, Tim

Clouds in My Coffee / Pattern Recognition or Wake up & Photo Your Coffee!
Goldklang, Lew

Clueless Word Puzzles
Henle, Frederick

Collapsing numbers in bases 2, 3, and beyond
Butler, Steve; Graham, Ron; Stong, Richard

Computer Hackenbush
Davis, Tom

Constructing the dodecahedral trail
Calkin, Neil

Cross Checker Paper Folding Puzzle
Uehara, Ryuhei

crossword puzzle
Moulton, David

Cube Route
Bobroff, Saul

Cube 'n Cube
Jespersen, Bjarne

Cuboku
Henle, James

Cut and Assemble Icosahedra, Twelve Models in White and Color
Torrence, Eve

Deltahedra Puzzles
Longtin, Tom

Design by einstein
Socolar, Joshua

DOODLES
Nightingale, Simon

DVD of Selected Works by John Edmark
Edmark, John

Eureka!'s Cross Reference to Mathematical Thinking
Leschinsky, David

Factor Subtractor
Cipra, Barry

Feel the Movement
Fink, Alex; Sai, .

Fingerprint Maze
Carpenter, Elizabeth

Folded Cookies for a Skeptic (Physical Gift) with Uploaded Paper
Orndorff, Robert

Folding Martin Gardner
Demaine, Erik; Demaine, Martin

Fortunatus X
Goldstine, Susan

Four Corners Puzzle
Maslanka, Chris

Four Semi-Chestnuts
Atkinson, Adam

Fractal Trees book
Fathauer, Robert

Free access to The Mathematical Intelligencer, vol. 33, no. 4
Senechal, Marjorie

Fruitloopery
Crease, Robert

G4 / G10 packing puzzle
Chaffin, Ben

G4G10 Dice
Harshbarger, Eric

Gwen's 65 Puzzle
Schaffer, Karl

Hex Over Easy
Stephens, James

hexaflexagons
Sonenshein, Charles

Hyperbolic Crane Diagrams
Lang, Robert

Imaginary Cubes H and T
Tsuiki, Hideki

Infinity Dodecahedron Beaded Bead
Fisher, Gwen Laura

Knotted Cog

Segerman, Henry

Laurie's G4GX Pot Pourri
Brokenshire, Laurie

Lominoes for G4GX
Bell, George

Magic Jumping Mouse
Turner, Stephen

The Mutilated Chess Board (Revisited)
Wright, Colin

Math Horizons
Torrence, Bruce

Minskys and Trinskys
Gosper, R. William; Ziegler Hunts, Julian; Holloway, John T.; Ziegler Hunts, Corey

MODULOR
Schwabe, Caspar

Non-Euclidean Board Games
Hawksley, Andrea Johanna

origami
Reis, Marti

Out of The Box
van Deventer, Oskar

Packing Puzzle
Rokicki, Tomas

PENTA-GONE PUZZLE
Niederman, Derrick

Pentagon Tilings
Scherphuis, Jaap

Perspicuity: Cartoons by Craig Swanson
Swanson, Craig

Portuguese Championship of Mathematical Games & $1/2+1/2-1=0$
Carvalho, Alda; Santos, Carlos

postcard and vZome
Vorthmann, Scott

Puzzles in Recruiting -- a Practical Purpose for Puzzles
Dunlap, Richard

Puzzles with hidden sines
Lawrence, David

Quasi-Crystal Pavilion
Hizume, Akio

Quilt 100, Two Mutually Orthogonal Squares of Order 10
Kepner, Margaret

Quintet in F
Slocum, Jerry

Recreational Mathematics Conference Posters
Hirth, Tiago

Representations of the 10 Geometric (10,3) Configurations
Johnston, William; Farrell, Jeremiah; Echols, Lacey

Retrolife - revisited
Elran, Yossi

rhombic triacontahedron pieces
Comstock, Jana

Rubik's Cube Prototype
Hoffman, Paul

SEABORGIUM CHEMICAL TABLE
Farrell, Jeremiah

So Many Presentations, So Little Time!
Barnhart, Anthony

So you want to become a magician...
Levy, Doron

Some New Combinatorial Games (From the Past Ten Years)
Siegel, Aaron

Spidron Anti-Prism (Right handed) and Spidron Anti-Prism (Left handed)
Allen, Amina; Stranahan, Mike

Square and Pentagon
Morgan, Christopher

Stewart Coffin #225
Raizer, Harold

SUPERFLEXAGON!
Schwartz, Ann

Taking Sudoku Seriously Offprint
Taalman, Laura; Rosenhouse, Jason

Temari Magnet
Yackel, Carolyn

Ten Card Magic Spell
Hofmeister, Conner

Ten Sided Yin-Yang Globe
Starr, Norton

TEN-Piece Dissection for Martin
Sandfield, Norman

TerseTalk (android app)
Strickland, Henry

The Amazing Neon Flicker! with Element #10 - NEON
Gilbertson, Roger G.

The Feb 1971 Scientific American Cover and Column
Smith, Alvy Ray

The Incompatible Food Triad -- Recipe Book #1

Inglis, Tiffany C.

The Mathematics of Martin Gardner
Peterson, Ivars

The Monkey Business Illusion
Simons, Dan

The Secrets of Notakto: Winning at X-only Tic-Tac-Toe
Plambeck, Thane

The Stepping-Stone maze - A self-wiring multi-state maze
Gilbert, Andrea; Abbott, Robert

The Trickiest Little Sliding Block Puzzle
Bickford, Neil

Three piece puzzle
van der Zanden, Tom

Three Variations on the G4G10 Theme
Levitin, Anany

Tool for "Kite Spiral"
Iwai, Masayoshi

TOURMALINE - A Gem of a Gem
Echols, Lacey

Trick-opening cricket boxes from China
de Vreugd, Frans

Tridome Hexayurt model
Harriss, Edmund

Turning Points (Physical Gift Exchange item)
Kisenwether, Joseph

Two-Minute-Folding-Puzzle
Goetz, Markus

T² TEN T²: Ten Terribly Tempting Number Theory Tidbits
Watkins, John

Untouchable 11 – Master Challenge
Hoff, Carl N.

What Shape is a Tree?
Miller, John

Word Rectangle

Elkies, Noam

X Games

Curtis, Pavel

{G4,GX} MagicTile Puzzles

Nelson, Roice