SCHEDULE FOR THE BRIDGES 2012 CONFERENCE

SESSION	SLOT	TIME	TYPE	AUTHORS AND TIT	LES
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WEDNESDAY JULY 25, 2012

Kaplan Co	oncert H	all		Morning 9:30am - 11:30am	SESSION I-1	Chair: Carlo H. Séquin			
25 AM 1	1	9:30		Welcoming Remarks					
				Bob Bosch, Craig Kaplan, George Hart, Doug McKenna, James Paulsen, Reza Sarhangi					
25 AM 1	2	10:00	PLEN	Science, Art, Beauty, the Meaning	of Life, and the Jame	es Webb Telescope			
				John Mather					
25 AM 1	3	10:45	PLEN	Celebrating Mathematics in Stone	and Bronze: Umbilic	Torus NC vs SC			
				Helaman Ferguson and Claire Fe	erguson				
25 AM 1	4	11:30		Opening of the Art Exhibition and Reception supported by JMA and T&F					
				Host: Craig Kaplan					

Lunch Break 12:30pm - 2:30pm

Kaplan Co	Kaplan Concert Hall			Afternoon 2:30pm – 4:00pm	SESSION I-2	Chair: Craig Kaplan	
25 PM 2	1	2:30	REG	Circle patterns in Gothic Architecture			
				Tiffany C. Inglis and Craig S. Kaplan			
25 PM 2	2	3:00	REG	Sinuous Meander Patterns in Natur	al Coordinates		
				David Chappell	David Chappell		
25 PM 2	3	3:30	REG	Patterned Triply Periodic Polyhedra			
				Douglas Dunham			

CA 3080				Afternoon 2:30pm – 4:00pm	SESSION I-3	Chair: Kenneth Brecher	
25 PM 3	1	2:30	SHRT	Meta-Vermeer: A Topological Reint	erpretation of a Maste	erpiece	
				Silvia De Toffoli and Yasuhiro Sakamoto			
25 PM 3	2	2:45	SHRT	Mathematical Sequential Art			
				Susan Happersett			
25 PM 3	3	3:00	SHRT	Fisheye View of Tessellations			
				Radmila Sazdanovic			

25 PM 3	4	3:15	SHRT	Harmonic Perspective
				C. J. Fearnley and Jeannie Moberly
25 PM 3	5	3:30	SHRT	Domes, Zomes, and Drop City
				Paul Hildebrandt and Clark Richert
25 PM 3	6	3:45	SHRT	The Mazzocchio in Perspective
				Kenneth Brecher

CA 2032				Afternoon 2:30pm – 4:00pm SESSION I-4 Chair: Brian Evans			
25 PM 4	1	2:30	SHRT	Diptych View on The Spiral			
				Francoise Beck-Pieterhons and Jacques Beck			
25 PM 4	2	2:45	SHRT	Point Symmetry Patterns on a Regular Hexagonal Tessellation			
				David Reimann			
25 PM 4	3	3:00	SHRT	Geometry and Art with a Circle Cutter			
				Roberta La Haye			
25 PM 4	4	3:15	SHRT	Amazing Labyrinths, Further Developments III			
				Samuel Verbiese			
25 PM 4	5	3:30	SHRT	Spelunking Adventure III: Close-Pack and Space-Fill Octahedral Domains			
				Curtis Palmer			
25 PM 4	6	3:45	SHRT	To Trace a Creative Thought			
				Brian Evans			

CA 3003				Afternoon 2:30pm – 4:00pm	SESSION I-5	Workshop	
25 PM 5	1	2:30	WORK	Combinatorial Choreography			
				Tom Verhoeff			

Coffee Break 4:00-4:30

Kaplan Ha	II			Afternoon 4:30pm – 6:30pm	SESSION I-6	Chair: Nils Kr. Rossing		
25 PM 6	1	4:30	REG	Broadening the Palette for Bobbin I	Broadening the Palette for Bobbin Lace: A Combinatorial Approach			
				Veronika Irvine				
25 PM 6	2	5:00	REG	Geometry and Computation of Hou	ndstooth (Pied-de-poule	e)		
				Loe M. G. Feijs				
25 PM 6	3	5:30	REG	Weaving Symmetry of the Philippin	e Northern Kankana-ey			
				Nathaniel A. Baylas IV, Teofina A	Rapanut, Ma. Louise	Antonette N. De las Pe nas		
25 PM 6	4	6:00	REG	The Old Art of Rope Work and Fourier Decomposition				
				Nils Kr. Rossing				

CA 3080				Afternoon 4:30pm – 6:30pm	SESSION I-7	Chair: Sarah Glaz
25 PM 7	1	4:30	REG	Math in Poetry: Half of a Course		
				Marion Cohen		
25 PM 7	2	5:00	REG	Art of p: Mathematical History and L	iterary Inspiration	
				Tatiana Bonch-Osmolovskaya		
25 PM 7	3	5:30	SHRT	Hierarchical Organization in Writing	Poetry, and Mathematic	cs
				Russell Jay Hendel		
25 PM 7	4	5:45	SHRT	Tune and Rhyme: Translation Symr	netry at Work	
				Alice Major		
25 PM 7	5	6:00	REG	Mathematical Pattern Poetry		
				Sarah Glaz		

CA 2032				Afternoon 4:30pm – 6:30pm	SESSION I-8	Chair: Merrill Lessley
25 PM 8	1	4:30	SHRT	Digital Sangaku		
				Jean Constant		
25 PM 8	2	4:45	SHRT	Tiling and Weaving with Permutatio	n Functions	
				Robert Hanson		
25 PM 8	3	5:00	SHRT	Optical Minimal Art		
				Hans Kuiper		
25 PM 8	4	5:15	SHRT	The Evolution of An Idea Inspired b	<i>i</i> 70	
				Charlene Morrow		
25 PM 8	5	5:30	SHRT	Beaded Realization of Canonical P,		
				Chern Chuang, Bih-Yaw Jin, Wei-	Chi Wei, Chia-Chin Tsc	00
25 PM 8	6	5:45	SHRT	The Art and Mathematics of Tangra	ms	
				Xiaoxi Tian		
25 PM 8	7	6:00	SHRT	The Seven Principles of Angle Stitc	ning—A Geometrically B	ased Beading Technique
				Laura Shea		
25 PM 8	8	6:15	SHRT	Projecting Mathematical Curves with Laser Light		
				Merrill Lessley and Paul Beale		

CA 3003				Afternoon 4:30pm – 6:00pm	SESSION I-9	Workshop	
25 PM 9	1	4:30	WORK	Imagining Negative-Dimensional Space	е		
				Luke Wolcott and Elizabeth McTernan			

Bridges 2012 Public Lecture

July 25th, 8:30pm Kaplan Concert Hall

PICASSO, SPACE, TIME, GUERNICA

This exciting public lecture will be given by Javier Barrallo, Professor of Mathematics at The University of the Basque Country in San Sebastián, Spain.

THURSDAY JULY 26, 2012

Kaplan Co	Kaplan Concert Hall			Morning 9:30am - 11:00am	SESSION II-1	Chair: Henry Segerman		
26 AM 1	1	9:30	REG	From M"obius Bands to Klein-Kno	From M"obius Bands to Klein-Knottles			
				Carlo H. Séquin	Carlo H. Séquin			
26 AM 1	2	10:00	REG	Polyhedra on an Equilateral Hype	rboloid			
				Dirk Huylebrouck				
26 AM 1	3	10:30	REG	Sculptures in S3				
				Saul Schleimer and Henry Segerman				

CA 3080				Morning 9:30pm – 11:00am SESSION II-2 Chair: Robert J. Krawczyk		
26 AM 2	1	9:30	SHRT	Extension of Neo-Riemannian PLR-group to Seventh Chords		
				Boris Kerkez		
26 AM 2	2	9:45	SHRT	Music Synthesis Based on Nonlinear Dynamics		
				Maximos A. Kaliakatsos-Papakostas, Andreas Floros, Michael N. Vrahatis		
26 AM 2	3	10:00	SHRT	A Non-Pythagorean Musical Scale Based on Logarithms		
				Robert Schneider		
26 AM 2	4	10:15	SHRT	Balanc, o: The Contour of Relative Offbeatness		
				Mehmet Vurkac		
26 AM 2	5	10:30	SHRT	Mathematics in the World of Dance		
				Katarzyna Wasilewska		
26 AM 2	6	10:45	SHRT	Exploring the Visualization of Music		
				Robert J. Krawczyk		

CA 3003				Morning 9	:30pm – 11:00pm	SESSION II-3	Workshop	
26 AM 3	1	9:30	WORK	A Worksho	p on Making Modifie	ed Truncated Icosahedra Us	sing 4D Frame	
				Park, Ho-G	ul and Taeyoung	Choi		

CA 4030 Co	CA 4030 Computer Lab			Morning 9:30am - 11:00am	SESSION II-4	Workshop	
26 AM 4	1	9:30	WORK	Mathematical Synthesis and Maki	ng of Rope Mats and Rose	ettes	
				Nils Kr. Rossing			

Coffee Break 11:00 - 11:30am

Kaplan Co	Kaplan Concert Hall			Morning 11:30am - 12:30pm	SESSION II-5	Chair: Doug McKenna
26 AM 5	1	11:30	PLEN	Sculpture Inspired by Connectivity in Nature		
				William Duffy		

Lunch Break 12:30pm - 2:30pm

Kaplan Co	Kaplan Concert Hall			Afternoon 2:30pm - 4:00pm	SESSION II-6	Chair: George Hart
26 PM 6	1	2:30	REG	My Parade of Algorithmic Mathematical Art		
				Greg M. Frederickson		
26 PM 6	2	3:00	REG	An Algorithm for Creating Geometric Dissection Puzzles		
				Yahan Zhou and Rui Wang		
26 PM 6	3	3:30	REG	Bringing M. C. Escher's Planaria to	Life	
				George Hart		

CA 3080				Afternoon 2:30pm – 4:00pm	SESSION II-7	Chair: Manil Suri
26 PM 7	1	2:30	REG	Never-ending Storytelling with Discrete-Time Markov Processes		
				Yutu Liu, Ergun Akleman, Jianer Chen		
26 PM 7	2	3:00	SHRT	The Creative Process: Risk-taking in	an Interdisciplinary Ho	nors Course
				Heather Pinson and Monica VanDieren		
26 PM 7	3	3:15	SHRT	Training Teachers after Bridges		
				M. G. Margues and M. Pires		
26 PM 7	4	3:30	SHRT	The "Golden Canon" of Book-Page L	Design: A Visual Presen	ntation Using Geometer's Sketchpad
				Stanley M. Max		
26 PM 7	5	3:45	SHRT	On the Geometry of Metafiction		
				Manil Suri		

CA 3003				Afternoon 2:30pm – 4:00pm SE	ESSION II-8	Workshop
26 PM 8	1	2:30	WORK	Musical Composition Without Standard Mu	usical Knowledge	
				Ana Pereira do Vale		

CA 4030 C	CA 4030 Computer Lab			Afternoon 2:30pm – 4:00pm	SESSION II-9	Workshop	
26 PM 9	1	2:30	WORK	Using Technology to Explore the G	ngs		
				Mary Kay Kirchner and Reza Sarl	nangi		

Coffee Break 4:00pm - 4:30pm

Kaplan Hal	Kaplan Hall			Afternoon 4:30pm – 6:30pm	SESSION II-10	Chair: James Mai
26 PM 10	1	4:30	REG	The Experience Workshop MathArt Movement: Experience-centered Education of		
				Kristóf Fenyvesi		
26 PM 10	2	5:00	REG	Mohr or Mascheroni?		
				Elaine Ellison		
26 PM 10	3	5:30	REG	Playing with the Platonics: A New C	Class of Polyhedra	
				Walt van Ballegooijen	-	
26 PM 10	4	6:00	REG	Juan Gris' Compositional Symmetry	/ Transformations	
				James Mai		

CA 3080	CA 3080			Afternoon 4:30pm – 6:30pm	SESSION II-11	Chair: Garry Greenfield	
26 PM 11	1	4:30	REG	Self Similar Patterns			
				Stanley Spencer			
26 PM 11	2	5:00	REG	Twisted D-Forms: Design and Cons	Twisted D-Forms: Design and Construction of D-Forms with Twisted Prismatic Handles		
				Qing Xing, Gabriel Esquivel, Ergu	ın Akleman		
26 PM 11	3	5:30	REG	Tiles and Patterns of a Field: From	Byzantine Churches to U	Iser Interface Design	
				Asaf Degani, Ron Asherov, Peter	J. Lu	-	
26 PM 11	4	6:00	REG	Stigmmetry Prints from Patterns of	Circles		
				Garry Greenfield			

CA 2032				Afternoon 4:30pm – 6:30pm SESSION II-12 Chair: Tatyana Sorokina		
26 PM 12	1	4:30	SHRT	Structural Qualities and Serial Construction of Tournament Braids		
				D. Jacob Wildstrom		
26 PM 12	2	4:45	SHRT	Using Star Polygons to Understand Cyclic Group Structure		
				Sandy Spitzer		
26 PM 12	3	5:00	SHRT	Analytical Calculation of Geodesic Lengths and Angle Measures on Sphere Tiling		
				Kyongil Yoon		
26 PM 12	4	5:15	SHRT	Crystallizing Topology in Molecular Visualizations		
				T. Hunter, K. Marineli, D. Marsh, T. J. Peters		
26 PM 12	5	5:30	SHRT	A Novel Geometric Pattern Extraction by Means of a Level-Set Method		
				Afshin Asefpour Vakilian and Maryam Rahnemoonfar		
26 PM 14	6	5:45	SHRT	The Immersive Bridge Between Math and Art		
				John Miller		
26 PM 14	7	6:00	SHRT	Symmetry and Bivariate Splines		
				Tatyana Sorokina		

CA 4030 Computer Lab				Afternoon 4:30pm – 6:00pm SESSION II-13	3 Workshop	
26 PM 13	1	4:30	WORK	Mathematical Eyes on Figure Skating		
				Diana Cheng, Tanya Berezovski, Cherie Farrington		

Journal of Mathematics and the Arts Editorial Board Meeting

July 26, 2012 7:00 PM

Place: To be Announced By invitation – Craig Kaplan

Planetarium Show and Telescope Viewing

Thursday, July 26th, 8:00 pm, 8:40 pm, 9:20 pm Watson-King Planetarium, Smith Hall Rm. 521

NATURE BY NUMBERS

A meditative exploration of the way in which our understanding of nature has progressed hand-in-hand with understanding of number. Three shows, each followed by outdoor telescope viewing (weather permitting)

Presented by Towson University faculty members James Overduin and Alex Storrs

FRIDAY JULY 27, 2012

Bridges 2012 Excursion Day
A Day in Baltimore: Art, History, and the Chesapeake Bay

A Lecture by William Noel, Curator of Manuscripts and Rare Book at the Walters Art MuseumDirector of the Archimedes Palimpsest Project, Coauthor of The Archimedes Codex

SATURDAY JULY 28, 2012

Kaplan Co	Kaplan Concert Hall			Morning 9:30am - 11:00am	SESSION III-1	Chair: Tom Verhoeff
28 AM 1	1	9:30	REG	Two-color Fractal Tilings		
				Robert Fathauer		
28 AM 1	2	10:00	REG	The Mathematical Art of Juggling	: Using Mathematics to	Predict, Describe and Create
				Mike Naylor		
28 AM 1	3	10:30	REG	Mitered Fractal Trees: Constructions and Properties		
				Tom Verhoeff and Koos Verhoe	eff	

CA 3080				Morning 9:30am - 11:00am	SESSION III-2	Chair: B. Lynn Bodner		
28 AM 2	1	9:30	REG	Polyhedral Modularity in a Special Class of Decagram Based Interlocking Star Polygons				
				Reza Sarhangi				
28 AM 2	2	10:00	REG	Simple Rules for Incorporating Design Art into Penrose and Fractal Tiles				
				San Le				
28 AM 2	3	10:30	REG	The Topkapi Scroll's Thirteen-Poi	nted Star Polygon Desi	ign		
				B. Lynn Bodner	, ,			

CA 2032				Morning 9:30am – 11:00am SESSION III-3 Chair: Kerry Mitchell				
28 AM 3	1	9:30	SHRT	Escher Unraveled: Using Artwork to Investigate Transformations				
				Ming Tomayko, Sandy Spitzer, Linda Cooper				
28 AM 3	2	9:45	SHRT	From Two Dimensions to Four—and Back Again				
				Susan McBurney				
28 AM 3	3	10:00	SHRT	Dune Surfaces: A Spatial Visualization Technique for Medial Axes in the Plane or on the Sphere				
				Peter Calvache				
28 AM 3	4	10:15	SHRT	Images and Illusions from Orthogonal Pairs of Ellipses				
				Hartmut F. W. Höft				
28 AM 3	5	10:30	SHRT	The Mathematics behind Anamorphic Art				
				Kimberly Rausch				
28 AM 3	6	10:45	SHRT	Fun with Chaotic Orbits in the Mandelbrot Set				
				Kerry Mitchell				

CA 3003				Morning 9:30am - 11:00am	SESSION III-4	Workshop	
28 AM 4	1	9:30	WORK	Exploring Braids through Dance: 1	The "Waves of Tory" Prob	lem	
				Andrea Hawksley			

Coffee Break 11:00 - 11:30am

Kaplan Co	Kaplan Concert Hall			Morning 11:30am - 12:30pm	SESSION III-5	Chair: George Hart	
28 AM 5	1	11:30	PLEN	Developing Mathematical Tools to Investigate Art			
				Ingrid Daubechies			

Lunch Break 12:30pm - 2:30pm

Kaplan Co	Kaplan Concert Hall			Afternoon 2:00pm – 3:30pm	SESSION III-6	Family Day	Chair: Kristóf Fenyvesi
28 PM 6	1	2:00	FD	Bridges 2010 Short Movie Festival			
				Coordinators: Amy and Nathan Selikoff			

CA 3003				Afternoon 2:00pm – 3:30pm	SESSION III-7	Workshop	
28 PM 7	28 PM 7 1 2:00 WORK			Teaching Temari: Geometrically Em	broidered Spheres in ti	he Classroom	
				Carolyn Yackel			

CA 3005				Afternoon 2:00pm – 3:30pm	SESSION III-8	Workshop	
28 PM 8	1	2:00	WORK	Let's Make a $(3^6)_D (3^6)_L$ Chiral Tesse	ellation Dance		
				Joseph D. Clinton			

Coffee Break 3:30pm - 4:00pm

Kaplan Co	ncert Ha	all		Afternoon 4:00pm – 7:30pm	SESSION III-9	Family Day	Chair: Kristóf Fenyvesi
28 PM 9	1	4:00	FD				
					s 2012 Experime rganizer: Steve		
28 PM 9	2	5:30	FD		2012 Mathematio oordinator: Sara		ay

CA 3003	CA 3003			Afternoon 4:00pm – 7:00pm SESSION III-10 Workshop
28 PM 10	1	4:00	WORK	Creating Non-Systematic Islamic Geometric Patterns with Complex Combinations of Star Forms
				Jay Bonner
28 PM 10	2	5:30	WORK	A Workshop in the Persian Art of Tazhib
				Mojgan Lisar

CA 3005				Afternoon 4:00pm – 7:00pm	SESSION III-11	Workshop	
28 PM 10	1	4:00	WORK	Kolam Workshop			
				Shanthi Chandrasekar			
28 PM 11	2	5:30	WORK	Bead Crochet Bracelets: What Would Escher Do?			
				Ellie Baker and Susan Goldstine			

Dinner Break 7:00pm - 8:30pm

Bridges 2012 Mime-Matics Night

July 28th, 8:30pm Kaplan Concert Hall

Tim and Tanya Chartier's mime combines masks, puppetry, and classical mime illusions into a distinctive style that they have performed throughout the United States and in national and international settings.

The Chartiers have trained at Le Centre du Silence mime school, the Dell'Arte School of International Physical Theater and with the world-renowned mime artist Marcel Marceau.

INFORMAL MUSIC EVENT

Coordinator: Vi Hart July 28th, 10:00pm Kaplan Concert Hall

Music is always a part of every Bridges conference. As one can see from the titles of the pervious proceedings books there are always a large number of contributed sessions given over to the intricacies of music, musical styles, and rhythm with mathematics. The conference participants who are music performers, present a night of music and educate the audience about their new findings in performing music and its connections with mathematics.

SUNDAY, JULY 29, 2012

Kaplan Co	oncert F	łali		Morning 9:30am - 11:00am	SESSION IV-1	Chair: Bob Bosch		
29 AM 1	1	9:30	PLEN	The Color Symmetries of the Sols	The Color Symmetries of the Solstices: Ritual Sandals from the Prehistoric American Southwest			
				Dorothy Washburn and Donald Crowe				
29 AM 1	2	10:15	PLEN	Commissioning a Bridge				
				Brent Collins				
				Coffee Break 11:00	am - 11:30am			
29 AM 1	3	11:30	PLEN	Splitting Tilings				
				Rinus Roelofs				

Lunch Break 12:30pm - 2:30pm

Kaplan Concert Hall				Afternoon 2:30pm – 4:00pm SES	SION IV-2	Chair: Jay Bonner		
29 PM 2	1	2:30	REG	A 7-Fold System for Creating Islamic Geometric Patterns Part 1: Historical Antecedents				
				Jay Bonner and Marc Pelletier				
29 PM 2	2	3:00	REG	A 7-Fold System for Creating Islamic Geometric Patterns Part 2: Contemporary Expression				
				Marc Pelletier and Jay Bonner				
29 PM 2	3	3:30	REG	Moorish Fretwork Revisited				
				Paul Tucker				

CA 3080				Afternoon 2:30pm – 4:00pm SESSION IV-3 Chair: Jay Zimmerman				
29 PM 3	1	2:30	SHRT	Generating Chinese Knots from Arbitrary Shapes				
				Andrew Lee and Brandon Wang				
29 PM 3	2	2:45	SHRT	Building the Schwarz D-Surface from Paper Tiles				
				Stephen Luecking				
29 PM 3	3	3:00	SHRT	RT A Topology-Preserving Voxelization Shrinking Algorithm				
				Daniel Whalen				
29 PM 3	4	3:15	SHRT	Exploring the Projective Plane via Variations on the Faceted Octahedron				
				Franklin Gould and S. Louise Gould				
29 PM 3	5	3:30	SHRT	Models of Stellations of the Icosahedron				
				Eve Torrence				
29 PM 3	6	3:45	SHRT					
				Jay Zimmerman and Kevin Zimmerman				

CA 2032				Afternoon 2:30pm – 4:00pm	SESSION IV-4	Chair: Alexander Munson			
29 PM 4	1	2:30	ABST	Curricular Outline for a Numeracy C	Curricular Outline for a Numeracy Course				
				Suzanne Keilson					
29 PM 4	2	2:45	ABST	Using Celtic Artwork to Introduce El	ementary Knot theory in	n a Secondary Education Classroom			
				Aaron Chotikul		•			
29 PM 4	3	3:00	ABST	A Brief Essay on Witkin & Symmetry	/				
				Ferhan Kızıltepe					
29 PM 4	4	3:15	ABST	Einstein's Jewish Science: Physics	at the Intersection of Po	olitics and Religion			
				Steve Gimbel		-			
29 PM 4	5	3:30	ABST	Symplectic Toric Varieties – the Tal	e behind the Logo of th	e 2012 Bridges Conference			
				Alexander Munson	-	-			

CA 3003				Afternoon 2:30pm – 4:00pm	SESSION IV-5	Workshop	
29 PM 5	1	2:30	WORK	Evolve Your Own Basket			
				James Mallos			

	Coffee Break 4:00pm - 4:30pm								
CA 3080				Afternoon 4:30-6:00	SESSION IV-6	Chair: Darrah Chavey			
29 PM 6	1	4:30	REG	Art of the Quantum Moment					
				Robert P. Crease and Alfred S	Robert P. Crease and Alfred S. Goldhaber				
29 PM 6 2 5:00 REG Knots as Processes in Art and Mathematics									
				Bojana Ginn					
29 PM 6	3	5:30	SHRT	Mathematics and the Ballet Bar	re				
				Karl Schaffer					
29 PM 6	4	5:45	SHRT	Depression Glass and Nested S	Symmetry Groups				
				Darrah Chavey					

CA 2032				Afternoon 4:30pm -6:00pm	SESSION IV-7	Chair: Paul Gailiunas		
29 PM 7	1	4:30	SHRT	A Mathematica GUI for Generating Conway Tiles				
				Bruce Torrence				
29 PM 7	2	4:45	SHRT	Steps Towards the Analysis of Geometric Decorative Motifs Using Shape-matching Techniques				
				Alice Humphrey and Michael Ha	าท			
29 PM 7	3	5:00	SHRT	Brand Values and the Perception of	of Symmetry			
				J. L. Marsden and B. G. Thomas				
29 PM 7	4	5:15	SHRT	Rotate, Reflect, Recycle				
				Karl Kattchee				

29 PM 7	5	5:30	SHRT	The MathStudio Pendulum Project
				Pau Atela
29 PM 7	6	5:45	SHRT	Intersecting Helices
				Paul Gailiunas

CA 3005				Afternoon 4:30pm –6:00pm	SESSION IV-8	Workshop	
29 PM 8	1	4:30	WORK	Poetry-with-Mathematics Workshop			
				JoAnne Growney			

Bridges 2012 Music Night

Kaplan Concert Hall

Sunday July 29, 2012

8:30 pm

Coordinator: Dmitri Tymoczko