

General Program, Thursday July 24, 2008

9:00 – 9:30	<i>Registration</i>	University Auditorium Lobby
9:30 – 10:00	<i>Plenary Session I, Stenden University Auditorium,</i> Chair: Carlo H. Séquin <i>Welcoming Remarks</i>	Municipality of Leeuwarden The Foundation Passages Eindhoven University of Technology University of Twente Bridges Organization
10:00 – 10:45	<i>Connected Holes</i>	Rinus Roelofs
11:00 – 11:45	<i>Perspective Drawings of Lattices</i>	Chaim Goodman-Strauss and Hop David
12:00 – 1:00	<i>The Art Exhibit Reception</i> <i>Visiting Artists at the Art Exhibit</i> <i>Supported by the Journal of Mathematics and the Arts, Taylor and Francis Publication</i>	Robert W. Fathauer Tessellations Company Phoenix, Arizona, USA Anne Burns Long Island University Brookville, New York, USA
1:00 – 2:00	<i>Lunch at University Dining Hall</i>	Tickets are sold at the door
2:30 – 6:00	<i>Special Sessions and Workshops</i>	Please see detailed Program on the next pages.
6:00 – 7:30	<i>JMA and Arts Associate and Editorial Boards Meeting (Board Members, or by special invitation only)</i> <i>Room 1</i>	Gary R. Greenfield Dept. of Math & Computer Science University of Richmond, VA, USA
6:30 – 7:30	<i>Movie</i>	Stenden University Auditorium
8:00 –	<i>Dinner</i>	<i>Local Restaurants</i>

Thursday Afternoon, July 24, 2008

ROOM 1	ROOM 2	START TIME		ROOM 3
Chair: Gail Kaplan	Chair: Paul Gailiunas			Chair: Koert Feenstra
<i>Mathematical Beauty in Architecture</i> Stephan Luijks, Huib Koman and Arno Pronk	<i>Module-Based Sculptural Constructions</i> Roland de Jong Orlando	2:30	2:30	<i>Polyhedra with Equilateral Heptagons</i> Marcel Tünnissen
			2:45	<i>TENSEGRITIES. Design, Analysis and Constructing</i> Jan Marcus
<i>The Maths of Churches, Mosques, Synagogues and Temples</i> Jenny Gage	<i>Sculpting from the inside "540 Hidden Split Torus"</i> Karel Vreeburg	3:00	3:00	<i>Moiré</i> Koert Feenstra
			3:15	15 Minutes Break
<i>The Catenary Art, Architecture, History, and Mathematics</i> Gail Kaplan	<i>Four Bar Linkages</i> Paul Gailiunas	3:30	3:30	<i>MasterPiece: Interact. Evol. in Visual Domain</i> Artemis Moroni and Jônatas Manzolli
			3:45	<i>A Geometric Model Applied To Urban Order</i> Cristina Argumedo, M ^a Francisca Blanco, Dora Giordano, Miriam Pisonero
30 Minutes Break	30 Minutes Break	4:00	4:00	<i>The Tangramoid : Recent Developments</i> Samuel Verbiese
			4:15	15 Minutes Break
Chair: Mara Alagic	Chair: John Sullivan			Workshop 1 (4:30-6:00)
<i>Cosmati Pavements: The Art of Geometry</i> Tristram de Piro	<i>Edge-Based Intersected Polyhedral Paper Sculptures Constructed by Interlocking Slitted Planar Pieces</i> Jace Miller and Ergun Akleman	4:30	4:30	<i>Fibonacci Tornado: Phylotaxy Spirals consisting of all Similar Triangles</i> Akio Hizume
<i>Mathematical Eyes on Intercultural Communication Processes</i> Mara Alagic and Glyn Rimmington	<i>The Borromean Rings: A Video about the New IMU Logo</i> Charles Gunn and John Sullivan	5:30		

General Program, Friday July 25, 2008

9:30 –	<i>Plenary Session 2, Stenden University Auditorium,</i>	Chair: John Sharp
9:30 – 10:15	Doubly curved architectural structures	Erik Moncrieff
10:30 – 11:15	<i>Painting the Total Picture</i>	Dick Termes
11:30 – 12:15	<i>The Sculpture Manifold: A Band from a Surface, a Surface from a Band.</i>	Bernd Krauskopf, Hinke M. Osinga, and Benjamin Storch
12:30 – 1:30	<i>Lunch at University Dining Hall</i>	Tickets are sold at the door
2:30 – 6:00	<i>Special Sessions and Workshops</i>	Please see detailed Program on the next pages.
6:30 – 8:00	<i>The Province of Friesland Reception</i> <i>Grote Kerk Leeuwarden</i> <i>Supported by the Province of Friesland Board of Directors</i>	The Province of Friesland Board of Directors Cor Wetting The Foundation Passages
8:00 –	<i>Dinner</i>	<i>Local Restaurants</i>

Friday Afternoon, July 25, 2008

ROOM 1	ROOM 2	START TIME		ROOM 3	
Chair: Javier Barrallo	Chair: Rachel Hall			Chair: Susan McBurney	
<i>Color Mixing using Colliding Particles</i> Gary Greenfield	<i>A Comparative Phylogenetic Analysis of African Timelines and North Indian Talas</i> Eric Thul and Godfried Toussaint	2:30	2:30	<i>Ternary Codes in Psychology, Culture, and Art.</i> Vladimir Petrov and Lidia Mazhul	
			2:45	<i>The Art of Equations</i> Lin Hsin Hsin	
<i>Manipulating Images with Fractal Julia Sets</i> Stanley Spencer	<i>Counting the Number of Site Swap Juggling Patterns with Respect to Particular Ceilings</i> Carl Bracken	3:00	3:00	<i>Mathematical Secrets of Seven</i> Susan McBurney	
			3:15	15 Minutes Break	
				Chair: Evan G. Evans	
<i>The Speed of Mathematics</i> Javier Barrallo	<i>Neo-Riemannian Geometry</i> Rachel Hall	3:30	3:30	<i>Imaging, Mathematics, and Art</i> Arjan Kuijper and Helma Kuijper	
			3:45	<i>Hammam -- Bath house, an ancient heritage in Iran</i> Hourieh Mashayekh and Hayedeh Mashayekh	
30 Minutes Break	30 Minutes Break	4:00	4:00	<i>The Hidden Art in a Dynamic Geometry Program</i> Evan G. Evans	
			4:15	15 Minutes Break	
Chair: Robert Bosch	Chair: Sandor Kabai			Workshop 2 (4:30-6:00)	
<i>Some Regular Toroids</i> Lajos Szilassi	<i>Diffusion Processes and Light Installations</i> Mike Kostner, Arjan Kuijper and Franz Schubert	4:30	4:30	<i>Triblock Origami Spheroid Workshops</i> Keh-Ming Lu, Alan S. Tsaur and Feng-Tse Chuang	
					5:00
					5:30
<i>Making Patterns on the Surfaces of Swing-Hinged Dissections</i> Reza Sarhangi	<i>Porter's Golden Section, Experimentally</i> Chris Bartlett and Dirk Huylebrouck				
<i>Connecting the Dots: The Ins and Outs of TSP Art</i> Robert Bosch	<i>Interactive Demonstrations with Mathematica 6</i> Sandor Kabai				

General Program, Sunday July 27, 2008

9:30 –	<i>Plenary Session 3, Stenden University Auditorium,</i>	Chair: George Hart
9:30 – 10:15	<i>The Mathematics of Mitering and its Artful Application</i>	Tom Verhoeff and Koos Verhoeff
10:30 – 11:15	<i>Intricate Isohedral Tilings of 3D Euclidean Space</i>	Carlo H. Séquin
11:30 – 12:15	<i>Medieval Islamic Architecture, Quasicrystals, and Penrose and Girih Tiles: Questions from the Classroom</i>	Raymond Tennant
12:30 – 1:30	<i>Lunch at University Dining Hall</i>	Tickets are sold at the door
2:30 – 6:00	<i>Special Sessions and Workshops</i>	Please see detailed Program on the next pages.
6:30 – 8:00	<i>Stenden University Reception, Stenden University Meeting Hall</i> <i>Supported by the Stenden University Office of President</i>	Stenden University Office of President Cor Wetting The Foundation Passages
8:00 –	<i>Dinner</i>	<i>Local Restaurants</i>

Sunday Afternoon, July 27, 2008

ROOM 1	ROOM 2	START TIME		ROOM 3
Chair: Anne Burns	Chair: B.G. Thomas	Chair: Ergun Akleman		
<i>Systematic Approaches To Color Interaction: Limited Palettes For Simultaneous Contrast Effects</i> James Mai	<i>A Fractal Crystal Comprised of Cubes and Related Arrangements of other Platonic Solids</i> Robert Fathauer, Hank Kaczmarek and Nicholas Duchnowski	2:30	2:30	<i>Visualization of Rhyme Patterns in Two Sonnet Sequences</i> Laura J. George and Hartmut F. W. Höft
			2:45	<i>Can geometry create art?</i> Andras Bezdek
<i>A Sangaku Revived</i> Zsafia Ruttkay	<i>Pull-up Patterned Polyhedra: Platonic Solids for the Classroom</i> E.B. Meenan and B.G. Thomas	3:00	3:00	<i>Aesthetic Beauty of Rotation</i> Ergun Akleman and Vinod Srinivasan
			3:15	15 Minutes Break
			Chair: Toshihiro Bando	
<i>From Sierpinski Gasket to Fractal Flowers</i> Anne Burns	<i>Patterning by Projection: Tiling the Dodecahedron and other Solids</i> B.G. Thomas and M.A. Hann	3:30	3:30	<i>Projecting Mathematical Curves with Laser Light</i> Merrill Lessley and Paul Beale
			3:45	<i>Shape and Transformations</i> Marcela Carolina Franco
30 Minutes Break	30 Minutes Break	4:00	4:00	<i>Spatial Anisotropy in Aesthetic Impression of Simple Color Arrangement Patterns</i> Toshihiro Bando
			4:15	15 Minutes Break
Chair: Alan Sutcliffe	Chair: Daniel Erdely			Workshop 3 (4:30-6:00)
<i>The Mathematics of the Channel Anamorphosis</i> James Hunt and John Sharp	<i>A Closer Look at Jamnitzer's Polyhedra</i> Albert van den Broeke and Zsófia Ruttkay	4:30	4:30	<i>Juno's Spinner Truncated Icosahedron</i> Junichi Yananose
<i>Doyle Spiral Circle Packings Animated</i> Alan Sutcliffe	<i>Some Interesting Observations Concerning Spidrons</i> Daniel Erdely and Walt van Ballegooijen	5:30		

Escher Day, General Program, Monday July 28, 2008

9:30 –	<i>Plenary Session 4, Stenden University Auditorium,</i>	Chair: Rinus Roelofs
9:30 – 10:15	<i>Recursion, Symmetry & Tessellation with Software based Video Feedback Systems</i>	Paul Prudence
10:30 – 11:15	<i>Lessons in Duality and Symmetry from M.C. Escher</i>	Doris Schattschneider
11:30 – 12:15	<i>Metamorphosis in Escher's Art</i>	Craig S. Kaplan
12:30 – 1:30	<i>Lunch at University Dining Hall</i>	Tickets are sold at the door
2:30 – 6:00	<i>Special Sessions and Workshops</i>	Please see detailed Program on the next pages.
6:30 – 8:00	<i>The Music Night Grote Kerk Leeuwarden</i>	A music program performed by the Netherlands musicians followed by music presentations of some of the Bridges participants.
8:00 –	<i>Banquet</i>	Grote Kerk Leeuwarden € 25 each person

Monday Afternoon, July 28, 2008

ROOM 1	START TIME	ROOM 2	START TIME		ROOM 3		
Chair: Zsófia Ruttkay		Chair: Eva Knoll			Chair: M.A. Hann		
<i>A "Circle Limit III" Backbone Arc Formula</i>	2:30	<i>SUDOKU puzzle generates a Minimal Art Sculpture</i> Hans Kuiper	2:30	2:30	<i>Artistic ideas regarding Escher's 'Print Gallery'</i> André Génard		
Douglas Dunham and Luns Tee		<i>Math and Arts: Finding the Horizon of Understanding</i> Hartmut F. W. Höft and Joanne C. Caniglia	2:45	2:45	<i>Creating Escher-like Bird Motif Tessellations</i> David Bailey		
<i>Coxeter Groups in Colored Tilings and Patterns</i> Glenn R. Laigo, Ia Kristine D. Puzon, and Ma. Louise Antonette N. De Las Peñas	3:00	Workshop 4 (3:00 -- 4:15) <i>Using D-Forms to Create a Calder Type Mobile</i> Eva Knoll, John Sharp, and Roger Tobie	3:00	3:00	<i>Pattern by Design – Not by Chance</i> M.A. Hann and B.G. Thomas		
<i>Interactive 3D Simulation of Escher-like Impossible Worlds</i>	3:30			3:15	15 Minutes Break		
Erik Orbons and Zsófia Ruttkay	4:00			3:30	Chair: Arjan Kuijper		
30 Minutes Break				4:00	3:45	<i>Mathematics in Rangolee art from India</i> Madhuri Bapat	
					4:00	<i>Using Binary Numbers in Music</i> Vi Hart	
		15 Minutes Break	4:15	4:15	15 Minutes Break		
Chair: Douglas McKenna		Workshop 5 (4:30-6:00)			Workshop 6 (4:30-6:00)		
<i>The Brachistochrone Problem between Euclidean and Hyperbolic</i> Robert Smits	4:30	<i>Create a Mathematical Banner Using the Lute, the Sacred Cut, and the Spidron</i> Elaine Krajenke Ellison	4:30	4:30	<i>Connecting Mathematics and the Arts through the Magic of Escher for Elementary School Students</i> Marilyn Sue Ford and Sarae Gold		
<i>Hankin's 'Polygons in Contact' Grid Method for Recreating a Decagonal Star Polygon Design</i> B. Lynn Bodner	5:00						
<i>Designing Symmetric Peano Curve Tiling Patterns with Escher-esque Foreground/Background Ambiguity</i> Douglas McKenna	5:30						