

DahPar I Reza Sarhangi JMM 2012

NEWSLETTER

JUNE 2017

Issue 2

UPCOMING EVENTS

BRIDGES WATERLOO 2017

July 27-31, 2017 University of Waterloo, Ontario, Canada

MAA MathFest 2017

July 26-29, 2017 Chicago, Illinois

IMAGINARY Exhibits, Workshops, & Math Creations Contest

Spring and Summer 2017, Europe

Joint Math Meetings 2018

Jan 10-13, 2018 San Diego, California

Message from the Officers

Welcome to the second edition of the SIGMAA-ARTS Newsletter. As mentioned in the first edition, our aim is to provide another conduit for communication with our members. We plan to include math-arts related news and announcements. If you have anything to report or other suggestions, please contact us.

We're looking for help revising the SIGMAA-ARTS charter. The problem is that the charter calls for yearly elections, but since organizing and hosting talks and exhibits take time, skill, and experience, it isn't feasible to change officers every year even if there were willing volunteers. In fact, we need some kind of structure for training replacements. We're having trouble finding time to work on this with our other responsibilities and it is important to the MAA. Contact Doug Dunham at ddunham@d.umn.edu to help out, no experience necessary.

This newsletter was designed by [Teresa Downard](#) and edited by Mary Margaret Williamson.

NEWS

Report from JMM 2017

The [Joint Mathematics Meetings \(JMM 2017\)](#) convened in Atlanta this year. The mathart community was active, from the 38 talks in four sessions of the MAA Contributed Paper Session on Mathematics and the Arts (1)(2)(3)(4), to the Exhibition of Mathematical Art, with 112 works by 72 artists. It was the first JMM since the passing of [Reza Sarhangi](#) (1952-2016), our friend, founder of the Bridges Organization, and tireless advocate for mathematical art.

Doug Dunham (University of Minnesota-Duluth) and John Shier won the prize for Best Photograph, Painting, or Print with their color print "Fractal Monarchs." The winner for Best Textile, Sculpture, or Other Medium was Jiangmei Wu (Indiana University) with her "Torus," which is folded from a single sheet of paper. Mary Klotz (Frederick, MD) won Honorable Mention with "AABB, two juxtapositions: Stars and Tadpoles, Dots and Triceratops," a triaxial weaving from hand-dyed silk ribbon. See the [online gallery](#) for images of all the pieces on display.

The area in the exhibition hall reserved for the art show (organized by [Robert Fathauer](#)) was in a visible location, and many conference-goers stopped by to have a look. The art space became a center of activity on Thursday afternoon when David Reimann (Albion College) led the SIGMAA-ARTS-sponsored "barn-raising" project. Reimann, with the help of many hands, including a lively contingent of young mathematicians, assembled a massive polyhedron from plywood squares, machine screws, and nuts.

The SIGMAA-ARTS business meeting took place on Wednesday, which for the first time was preceded by "substantial hors d'oeuvres." There was also an MAA special presentation Poetry+Math on Thursday evening. Many of the crafters in the mathart crowd attended the Knitting Circle also on Thursday.



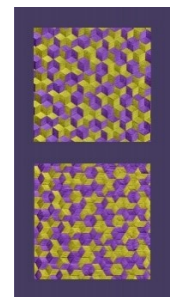
Barnraising sculpture with [David Reimann](#)



Fractal Monarchs - Dunham & Shier



Torus - Jiangmei Wu



AABB - Mary Klotz

The contributed paper sessions were organized (and moderated) by Doug Norton (Villanova), and they were well-attended. Doug Dunham presented the algorithm behind his award-winning print, and Simei Tong (University of Wisconsin-Eau Claire) shared her amazing mathematical quilts. Jennifer Wilson (The New School) gave a talk on Sol LeWitt, and James Henle (Smith College) proposed a definition of what a mathart object is, prompting some interesting discussion. Luke Wolcott (USC) recounted an interesting collaborative project which involved hiking up the Himalaya and measuring altitude by means of the boiling point of water, the list of fascinating presentations goes on.

JMM 2018 will happen in San Diego, where another lively program of events for the mathart crowd is expected. See you there!

Submitted by Karl Kattchee (University of Wisconsin-La Crosse)

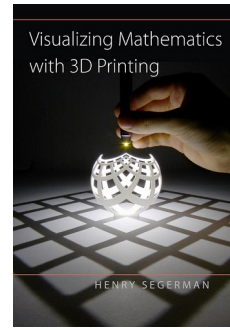
ANNOUNCEMENTS



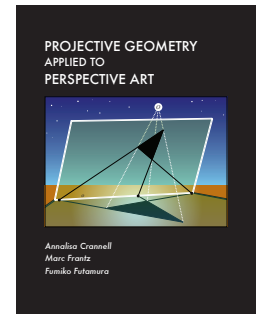
The first art exhibit at a MAA Sectional Meeting was hosted by the [Golden Section](#) on March 4th, 2017 at Santa Clara University in California! You can find more pictures and information on [Vince Matsko's Blog "Creativity in Mathematics"](#).



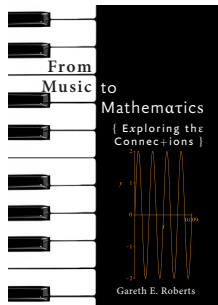
The 2017 Southeastern Section meeting at Mercer University featured two mathematical art events: the first special session on math and art at a section meeting as well as one of the first math and art shows, titled "Adjacent", which ran from February 27-March 24 in the [Plunkett Gallery](#). Both were organized/co-organized by Carolyn Yackel.



Henry Segerman's book "Visualizing Mathematics with 3D Printing" was published by Johns Hopkins University Press in July 2016.



The draft of our book is available at <https://www.fandm.edu/annalisa-crannell/course-materials/perspective-math-for-majors>.



A comprehensive textbook designed to appeal to students without specialized knowledge of mathematics or music. Johns Hopkins University Press (2016). <http://www.frommusictomath.com/>



Karl Kattchee, fastening hyperbolic surfaces to the UW-La Crosse Crochet Coral Reef (see <http://www.theiff.org/> for more information).



PAU ATILA
The Arts and Mathematics at Sarah College - *see below*, in their Business School building, display their work through the Bridges and Business in Creativity and Innovation series. The Arts and Mathematics at Sarah College - *see below*, in their Business School building, display their work through the Bridges and Business in Creativity and Innovation series. The Arts and Mathematics at Sarah College - *see below*, in their Business School building, display their work through the Bridges and Business in Creativity and Innovation series.

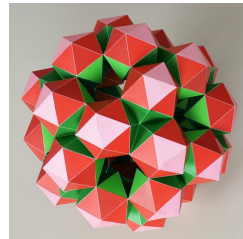
Pau Atela and MathStudio, featured in Artists Favourites section of German/English contemporary art magazine [Spike Art Quarterly](#), Winter 2017.



University of Wisconsin Eau Claire students enjoy design and making math and art course project. Dr. Simei Tong is very proud of her students creation and she is very grateful of the department and local community support in this effort.



Laura Moss using Daina Taimina's crochet models to teach young students about hyperbolic geometry in Huntsville, AL. mosslj@uah.edu



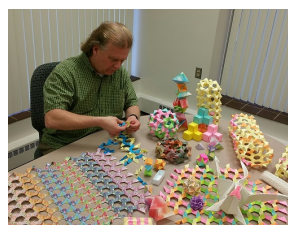
Compound of 30 icosahedra, meeting edge to edge with overall icosahedral symmetry, made from cardboard the traditional way (score, cut & glue), coloured to look like a bouquet of flowers for Valentines day- Christoph P'oppe



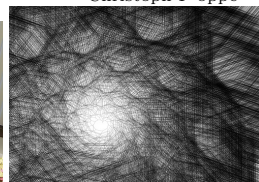
Labyrinth explores ordered randomness and how (as in Conway's Game of Life) a small set of simple rules can produce unexpected complexity. This acrylic painting was developed from a square grid on the canvas exercise left to the viewer! - Rich Kaste



Atlanta, JMM 2017: Rosanna Imbo, mathematician and Sigmaa-Arts member, together with the daughters Miriam and Irene Iaccarino, violinists, presented a video on the harmony of the Pythagorean School, founded in Crotona, Italy.



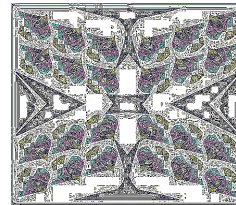
Fun with modular origami - with branching ratios larger than one, and will be presenting their work at Bridges 2017.



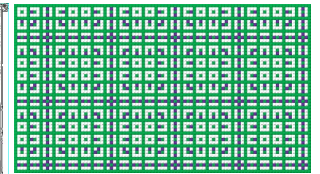
Vince Matsko and his student Nick Mendler have been working on fractal binary trees with branching ratios larger than one, and will be presenting their work at Bridges 2017.



Distribution of Equidistant Primes - Mauricio A. Lara



Tree of Life - Cynthia McGinnis, Northwest Florida State College



Exploring the hidden symmetries of the multiplication table through modular arithmetic by Zohair Barka, Journal of Humanistic Mathematics.