Pattern, Symmetry, Growth and Decay celebrates the interplay between art and mathematics
Artist and mathematician David Bachman's debut LA show opening at MorYork

Opening reception November 10, 2017, 7-9 PM
On view through November 15, 2017

MorYork Gallery
4959 York Blvd, Los Angeles, CA 90042

MorYork Gallery will be hosting *Pattern, Symmetry, Growth, and Decay*, artist and mathematician David Bachman's debut solo exhibition. The show will feature limited edition 3D printed/ multimedia sculpture, showcasing the use of mathematics as a tool for the creation of art. Four interconnected series of pieces will be on view. Each series demonstrates how the repeated application of simple rules can lead to beauty and complexity in overall form.

In *Pattern,* the first series, each piece began as a simple surface. These surfaces were broken up into small pieces, and each piece was replaced by one three-dimensional unit. The results are complex weavings of objects and their surrounding space.

Symmetry explores the opposite process. Each piece in this series began as a simple form, and these forms were propagated through space by applying reflections and rotations arising from the platonic solids. Furthermore, the pieces are paired, with each pair demonstrating the concept of a reflection though the fourth dimension.

Kale, 2017. Laser Sintered Nylon, Wood (10"x10"x5.5").

In *Growth* we see complex forms that evolved from simple shapes by a simulated evolutionary processes. This process works by exploiting the tensions between small-scale expansion and large-scale smoothing. Along the way, each surface is broken into triangles, and these triangles are further broken up to create a texture reminiscent of medieval Islamic tilings.

Finally, *Decay* demonstrates what happens to the simplest of all forms, the cylinder, when it undergoes a destructive compression force. The resulting buckling creates a fascinating, unpredictable pattern on its surface, and destroys all regularity in overall shape.

About the Artist

David Bachman is both a self-taught artist and mathematician. He received his PhD in 1999 from the University of Texas at Austin, and has since published over 20 research articles and three books. He is currently a Professor of Mathematics at Pitzer College in Claremont, CA, and regularly co-teaches with faculty in the art department. David's artwork has been seen in exhibitions in Portland, OR; Washington, DC; Atlanta, GA; Baltimore, MD; Long Beach, CA; San Antonio, TX and Waterloo, Canada.

MorYork Gallery

MorYork is artist Clare Graham's 7000 square foot Highland Park warehouse space, originally built in 1933 as a Safeway supermarket. It is home to Graham's own creations, as well as his sprawling collections of oddities. Through shows and special events, MorYork supports and encourages non gallery-represented artists, and facilitates exchange with the Highland Park community.

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