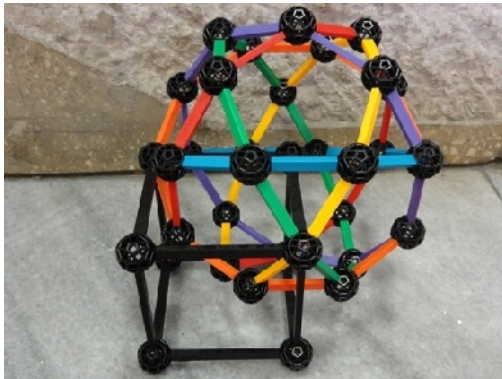


# zometool in pacs

At Bridges 2010



In July 2010, Bridges Conference for Mathematics and Art was held in Pács, Hungary. A beautiful Zome sculpture named No.116 was constructed by the participants and Paul Hildebrandt, one of the artists who designed it. He describes the work as follows;

"6 identical Islamic tilings, based on traditional ornamentation but revealing 5-fold symmetry, live in 6 red planes of Zome geometry. Even though they are all built using 3 lengths of "blue" lines (B0, B1, and B2), each tiling is assigned one of 6 primary or secondary (rainbow) colors: red, orange, yellow, green, blue, purple. The explosion of color is imbedded in a 6 x 6 x 6 body-centered cubic lattice, which embodies 2-fold and 3-fold symmetries. Although the BCC is built using medium "yellow" (Y2) and medium "blue"

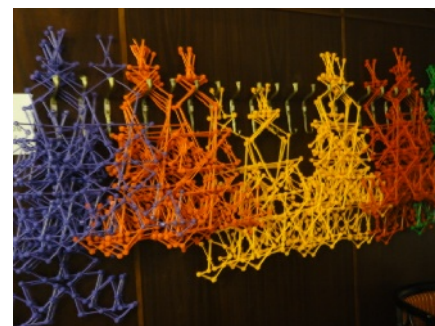
(B2) lines, it is entirely black, accentuating the differences between the two elements of the sculpture: the cube is based on counting numbers while the Islamic patterns are animated by the Divine Proportion, an irrational number. The intersection of these two worlds is complex and unpredictable.

Artists: Marc Pelletier and Paul Hildebrandt

Construction team: Aurora, Lizzie Hildebrandt, Noriko Maehata, Cristoph Pöppe, Henry Segerman, Mike Stranahan, Paul van de Veen, Samuel Verbiese, and many participants in the Bridges Pécs Art-Math Conference

Special thanks to: Kristof Fenyvesi and Ildiko Szabo (Experience Workshop Team), for organization, space and resources."

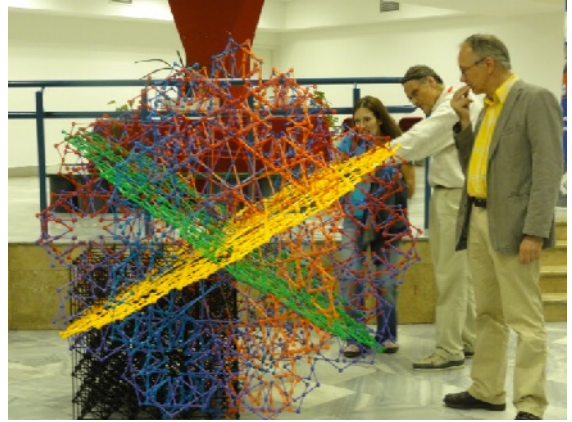
This model was installed at Apaczai Education and Cultural Center



Paul asks for the participation in construction of the Islamic tiling units for the art work among the conference participants.

Paul and Sam discusses about the construction.





Paul and Lizzie sign for the book at the Education Center.

