



EUROPEAN SOCIETY FOR MATHEMATICS AND ART NEWSLETTER

Volume 001. Issue 006

August 2010

FOREWORDS ACTIVITIES RESOURCE UPDATE GALLERY

Dear Colleagues,

July and August are two busy months for ESMA.

July was busy with the Society' first exhibit and conference. And the first fortnight in August is being dedicated to two important jobs for mathematician and artists alike: rest in the mountain or sunbathing at the seashore.

ESMA - IHP Exhibit

Numerous mathematicians and people of intellectual curiosity and artistic interest attended the exhibit. The many elogious comments in the Guest book are not only rewarding but an encouragement for ESMA to pursue its activity and share the wealth and beauty of the mathematical world with the general public.

Given the quality of the show and the interest of the public, the exhibition dates were extended till September 15 at the IHP suggestion.

Konrad Polthier is preparing an extensive report on the exhibit and conference for the Mathematic Journals.

Many thanks to the Library of the Institute and its staff for lending us so much help with the logistic and hanging of the show and hosted a very pleasant evening cocktail on the first day of the Conference.

ESMA 2010 Conference

The conference went according to the original schedule with minor last minute accommodation: François Apéry shortened his talk in order to let Gregori Franzoni from Cagliari show his sculptures on Boy surface. Two participants, Jean-François Colonna and Luciano Boi, were unable to be present because of family emergencies and were replaced by David Reimann of Albion

According to the general opinion, most participants enjoyed meeting in person and found interest in the various talks and presentations. It was agreed that future ESMA conferences should be held every two years. Konrad Polthier and Simon Salamon submitted Berlin (2012) and Italy (2014) as future conference location.

Conference proceedings:

- Electronic & Digital

The ESMA site will compile the digital elements of conference as they are submitted. It feature this month the PowerPoint presentations of Dmitri Koslov and Jean Constant in the resource page in pdf format. Other participants are invited to send copy of their talk and/or their PowerPoint presentation to info@mathart.eu

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Printed publication

Several possibilities have been considered for the publication of the proceedings: journals (Gyorgi Darvas suggested a publication in the journal *Symmetry*; John Sullivan suggested the *Journal of Mathematics and Art*; Konrad Polthier pointed to the successful publication of the 2000 proceedings of the Maubeuge conference published by Springer.

Final decision will be made once the complete set of text and information will have been gathered from the participants. In a first step, authors should write the text of their presentation without any kind of limitation and send it to Claude Bruter who will supervise the compiling and coordinate with each author individually.

ESMA Board meeting

ESMA first annual Meeting was held Wednesday July 21. The 2010-2014 board of director was approved as follow:

- **Apéry François**, in charge of the acquisition cataloguing and curating of the collections of mathematical models.
 - **Bruter Claude**, Society executive director.
 - **Constant Jean**, Society webmaster and newsletter editor.
 - **Field Mike**, in charge of the relations between mathematics and art from the educational point of view.
 - **Jablan Slavik**, in charge of summer and winter schools.
 - **Kozlov Dmitri**, in a charge of architectural projects
 - **Lehning Hervé** Society treasurer.
 - **Leys Jos** in charge of animations and films projects.
 - **Matt Andreas**, in charge of the exhibitions.
 - **Mercat Christian**, in charge of gathering information on software and tools illustrating mathematical constructions and facts.
 - **Polthier Konrad**, in charge of the relations between ESMA and the various European mathematical societies.
 - **Salamon Simon**, new mathematical models.
 - **Sullivan John**, in charge of the relations between ESMA and the American mathematical and artistic community.
- **Richard Palais and Valentin Poenaru**, have been nominate honorary members of ESMA.

If you need to contact any of the above board members, please send an e.mail to their name at info@mathart.eu

With my best wishes,

Claude P. Bruter
8.8, 2010

ACTIVITIES

Posted this month on the ESMA website, activities page. For information, listing of upcoming events: info@mathart.eu

- **On-going:** June 7 - September 15, ESMA Mathematics & Art exhibit. Institut Henri Poincaré. Paris, FR. Monday – Friday, 9:30 AM – 18:00 PM or by appointment
- **Monday, October 18 2010** Mathematics as Art in Contemporary Theatre. Dr Stephen Abbott, Mathematics/Middlebury. (CRASSH). The Centre for Research in the Arts, Social Sciences and Humanities was established at the University of Cambridge in 2001 as a hub for dynamic scholarly encounter and development

ESMA site statistics this month:
Most visited pages: IHP-2010 (211), Newsletter (137) Gallerie (135)

Members of the mathematical & artistic community linked to ESMA this month:
[IHP JUSSIEUX](#), [IMAGES MATH CNRS FRANCE](#), [GEORGEHART.COM](#). *If interested to link your personal or professional site to ESMA, contact our site administrator for help & advice: info@mathart.eu*

RESOURCE CENTER

Posted this month on the ESMA website, resource center page. For suggestion, recommendation, comment on new posts: info@mathart.eu

Christian Mercat:

From the Institut de Mathematiques et de Modelisation de Montpellier (Montpellier Institute of Mathematics and modeling systems) soon to leave the for the Lyon IUFM: a gallerie of optical effect & distortions and a series of downloadable mathematical webcam plug-ins.

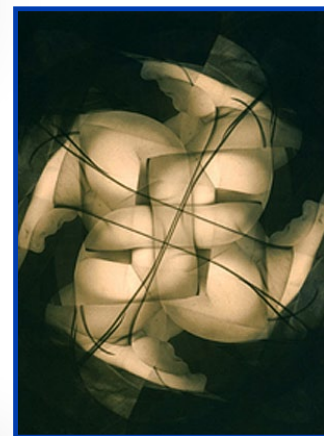
Dmitri Koslov:

ESMA 2010 conference presentation: Knots and links as form generating structures. EN

GALLERY

Christina Besa

CORPI INCROCIATI - Cristina's photomontages are created through traditional lab techniques to develop new symmetries: www.besaarts.com.



MATHEMATICAL GAME

Trakasu by François Tard

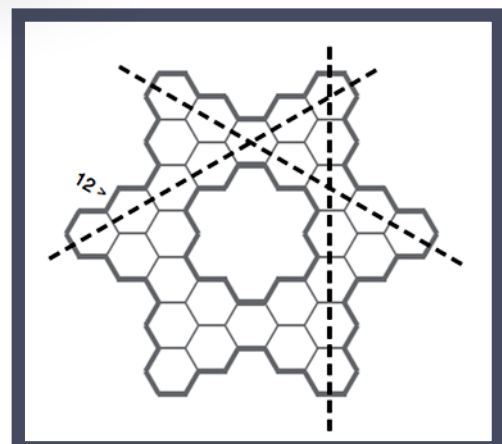
Select a number from 1 to 7 for each cell

Notice that the hexagonal cells that have a common side are aligned by two or seven in three directions

1) similar numbers cannot be displayed more than once in the same alignment

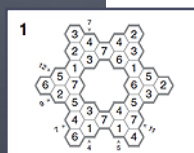
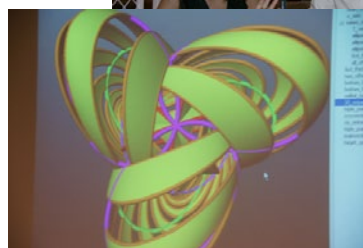
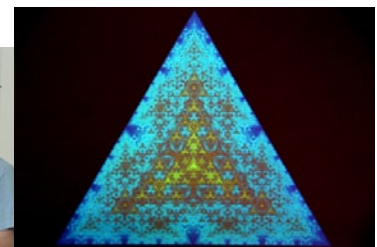
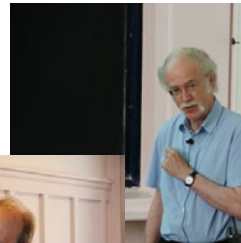
2) the exterior numbers outside the grid are equal to the sum of two numbers in the alignment outlined by the arrow.

(Solution p.4)



ESMA CONFERENCE 2010. July 19 -22, IHP, Paris, France

The 74 images portfolio by Marianne Braun is available on the ESMA site, activities page, [ESMA activities](#). John Sullivan's detailed coverage of the exhibit and conference is available on the [ISAMA](#) site



Trakasu # 1 solution