VOLUME XXVII, NUMBER 2;  
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Articles

The word clouds (formed in Tagxedo, online) serve as a visual "abstract" of the adjacent article!

Symmetry Groups

William C. Arlinghaus

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tagxedo.com
Geometry Links from George Mokray...a hat tip to George from IMaGe!

Geometric and other apps
http://www.timehavenmedia.com
PolygonJazz - the music of the polygons
http://www.polygonjazz.com
Geometry Tree - app for fractal tree structures
http://geom-e-tree.com

Watch a spider weave a web

Rivers of the United States in rainbow colors - I'd like to see a version of this map which does not stop at national borders but shows the full watersheds of North and South America
http://imgur.com/gallery/N4cUA
http://www.dailymail.co.uk/sciencetech/article-3860062/The-veins-America-Stunning-map-shows-river-basin-US.html

Heat shrinking metamaterials
https://youtu.be/gex2o-Yx700

Eno Henze's artworks
http://enohenze.de

Echoes - a fractal animation by Chris Bjerre
https://vimeo.com/18816447

Hiromi Tango, biological sculpture performance artist
http://hiromitango.com

New George Hart sculpture
https://youtu.be/fayF3Ay9nNQ

New Chuck Hoberman installation
http://www.bostonmagazine.com/arts-entertainment/blog/2016/10/26/chuck-hoberman-10-degrees-le-lab/

Composite cellular morphing wing
http://news.mit.edu/2016/morphing-airplane-wing-design-1103

SOFTlab
http://softlabnyc.com

Their latest piece is Ventricle
https://www.behance.net/gallery/14146177/Ventricle

Here's a making-of video of another piece, We Are Flowers
https://vimeo.com/98830926

AVA, a geodesic scientific installation
https://vimeo.com/18816447
http://www.ouchhh.tv

Hmmm, I wonder if these folks would be interested in making a Geosphere to play the World Game.

Gozinta Boxes
http://boingboing.net/2016/10/05/the-gozinta-boxes-a-work-of.html

Chirming - birdsongs as mandalas
http://designawards.core77.com/Visual-Communication/30854/Chirming

Animated color coded graphics of meteorology and weather systems
https://www.ventusky.com

2016 Information Is Beautiful Award Nominees
http://www.informationisbeautifulawards.com/showcase?award=2016&pcategory=short-list&type=awards
http://www.informationisbeautifulawards.com

oxDNA - a simulation for polyhedral nanostructures built with DNA
https://dna.physics.ox.ac.uk/index.php/Main_Page

DNA gallery: https://dna.physics.ox.ac.uk/index.php/Gallery_of_studied_systems

Polygons - a folding measuring spoon with four sizes
https://www.kickstarter.com/projects/stillalive/polygons-the-flat-4-in-1-measuring-spoon

New detailed 3D map of the Earth

Brendan Ravenhill's version of Fuller and Sadao's dymaxion folding globe
https://youtu.be/uu2CriurqUY

Visualizing numbers
https://youtu.be/hPDZMmAQb

Global shipping map
https://www.shipmap.org

3D star map based upon Gaia satellite data
http://charliehoey.com/threejs-demos/gaia_dr1.html

IN MEMORIAM, 2016

Halil Inalcik
William H. McNell
RECENT NEWS...

1. *Quaestiones Geographicae*, Special Issue.
2. Chene Street History Project.
4. The work above is the first volume in a series of books to be published by CRC Press in its series "Cartography, GIS, and Spatial Science: Theory and Practice." If you have an idea for a book to include, or wish to participate in some other way, please contact the series Editor, Sandra L. Arlinghaus.
5. *Virtual Cemetery* with William E. Arlinghaus; an ongoing project that continues in development run in the virtual world in parallel with the trust-funded model of a real-world cemetery.

*Solute: An Electronic Journal of Geography and Mathematics, Institute of Mathematical Geography (IMaGe).* All rights reserved worldwide, by IMaGe and by the authors. Please contact an appropriate party concerning citation of this article:

http://www.imaginet.org
http://depts.lib.umich.edu/handle/2027.42/58219

*Solute* was a Pirelli INTERNETional Award Semi-Finalist, 2001 (top 80 out of over 1000 entries worldwide)

One article in Solute was a Pirelli INTERNETional Award Semi-Finalist, 2003 (Spatial Synthesis Sampler).

Solute is listed in the Directory of Open Access Journals maintained by the University of Lund where it is maintained as a "searchable" journal.

Solute is listed on the journals section of the website of the American Mathematical Society. http://www.ams.org

Solute is listed in Geoscience e-Journals

IMaGe is listed on the website of the Numerical Cartography Lab of The Ohio State University: http://www.digimutl.org

Ulrich's lists online journal availability for full text sources:

- Colored Alliance of Research Libraries
- Open Access Digital Library, 01/01/1990-
- Directory of Open Access Journals
- Directory of Open Access Journals, 1990-
- EBSCOhost
  - Academic Search Complete, 12/01/2006-
  - Academic Search R&D, 06/01/2006-
- Geoscience e-Journals
- Geoscience e-Journals, 1990-
- HEAL Link
- Hellenic Academic Libraries Link, 1990-
- Multiple Vendors
- Freely Accessible Science Journals, 1990-
- National Institute of Standards and Technology
- National Institute of Standards and Technology Virtual Library, 1990-
- Universitätsbibliothek Regensburg
- Elektronische Zeitschriftenbibliothek - Frei zugängliche E-Journals, 1990-
- 中国教育图书进出口公司 (China Educational Publications Import & Export Corporation)
- Socolar, 2004-2010

Abstracting and Indexing Databases:
Review posted on Ulrich's site:

An interesting example of a privately issued electronic journal. As described in the mission statement of the journal, "The purpose of Solstice is to promote interaction between geography and mathematics." Articles are scholarly in presentation, with clear illustrations and charts. A number of the articles are written by the editor; the editorial advisory board lists individuals from throughout the country. Libraries should review and consider adding this to their collection of electronic journals.

ML 11-15-1997

Library of Congress Number: G70.23

Congratulations to all Solstice contributors.

Remembering those who are gone now but who contributed in various ways to Solstice or to IMaGe projects, directly or indirectly, during the first 28 years of IMaGe:

Allen K. Philbrick
Aima S. Lach
Donald F. Lach
Frank Henry
William R. Drake
J. S. M. Coxeter
B. S. Industries
Clayton J. Jones
Howard Norton
Elisabeth C. Paul
Aubrey A. Leopold
Sandra Lane
Chauven
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