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Calling All Mapmakers: Submit your visualizations to the 7th Iteration of Places & Spaces:
"Science Maps as Visual Interfaces to Digital Libraries." **Deadline is January 30, 2011.**

INNOVATION

Calling All Mapmakers

Submit Your Science Map to the 2011 Places & Spaces: Mapping Science Exhibit.

DISPOSABLE HEROES

Even mild blows to the head in sports like football can, if chronic, be neurologically debilitating.

RESEARCH BLOGGING

DAVE MUNGER



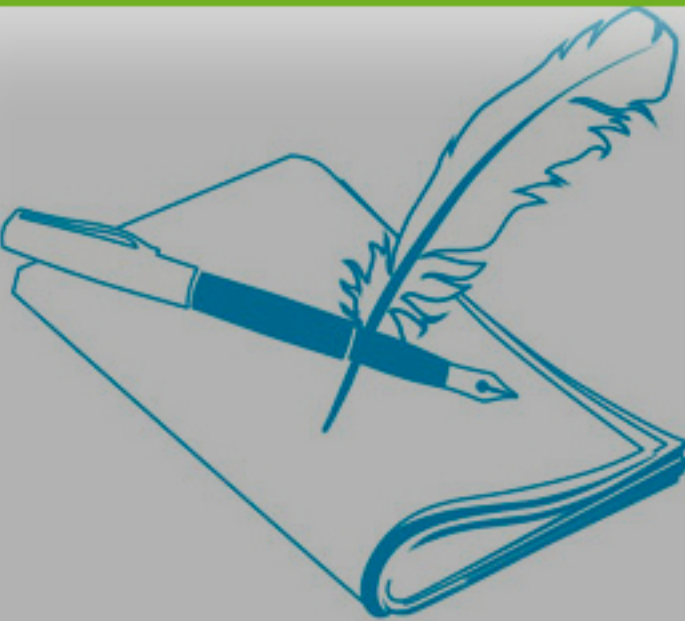
Five Centuries of Influenza

Studying historical pandemics can help prevent outbreaks in the future.

GLOBAL RESET

On Overconfidence

Humans are overconfident creatures, which boosts our persistence, ambition, and drive—but can also lead to disasters.



Public Presence & Social Science

GLOBAL RESET SERIES / BY HERBERT J. GANS / JANUARY 14, 2011

The social sciences deal with humanity's most pressing problems, but there are barriers between practitioners and the public. According to the preeminent sociologist Herbert Gans, we must restructure these disciplines from the ground up.

+ [A Letter from the Editor](#)

Departments

IDEAS

The Revenge of Comic Sans

Could less-legible fonts actually increase reading comprehension and retention?

GLOBAL RESET

On Delivering Vaccines

A self-sufficient device could deliver vaccines to the third world despite unreliable power grids and roads.

GLOBAL RESET

On Meaningful Observation

Adding art and design to science education would put some humanity back into the innovation engine and lead to more progress.

GLOBAL RESET

On Education

With a cross-disciplinary approach to education, we can train a new class of problem-solvers to address global challenges.

IDEAS

The Power of the People

Dave Munger test-drives two new tools for understanding vast sets of data.

GLOBAL RESET

On International Cooperation

Progress on world challenges depends on interdisciplinary, globe-spanning conversations.

GLOBAL RESET

On Early Warning Signs

Deep mathematical principles unite climate change, epileptic seizures, financial crises, and fishery collapses.

GLOBAL RESET

On Systemic Risk

Policymakers must learn from recent events to control the risk latent in our interdependence.

IDEAS

Toxic House Cats?

A parasite transmitted by house cats may subtly alter human behavior.

IDEAS

The Improvisational Brain

Scientists investigate the source of improvising musicians' creative mojo.

GLOBAL RESET

On Resilience

Resilience theory offers new ways to turn crises into catalysts for innovation.

GLOBAL RESET

On Restoring the Oceans

Earth's oceans are in trouble. But a new census of marine life is kick-starting the recovery effort.

IDEAS

Death for "Arsenic-Based Life"?

Hope and hype surround NASA's announcement of arsenic-munching microbes.

WORLD

Tensions Rise in Cancún

Time runs out in Cancún as negotiators work for compromise.

GLOBAL RESET

Knowing Sooner

New predictive models allow faster adaptation to the defining problems of our age.

SLIDESHOW



The Hidden World of Ants

Mark Moffett travels around the world taking stunning close-up photographs that capture the fascinating lives of ants.

BOOKS



Books to Read Now Edit Staff

June releases follow a wizard-bearded scientist on his quest to end aging; mine the essence of pleasure; and explore why being wrong is central to the human experience.

INTERACTIVE



Repository of the Cosmos

We visit Neil deGrasse Tyson to talk about his role as "servant to the public appetite of the universe" and all of the odd things that accumulate in his office.

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THE NEW YORK TIMES

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Crowd science reaches new heights

THE CHRONICLE OF HIGHER EDUCATION

5

Opening up science

TIMBUKTU CHRONICLES

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Selected Posts for January 14, 2011

How "Being Wrong" can be so right

WE BEASTIES

January 13, 2011

Fit to be Tied

CLASS M

January 13, 2011

OSHA must wash its hands of PELs

THE PUMP HANDLE

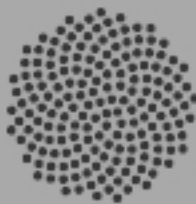
January 13, 2011

"Pittdown" medicine: Andrew Wakefield's scientific fraud was worse than previously thought

RESPECTFUL INSOLENCE

January 4, 2011

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SUBMIT YOUR SCIENCE MAP TO THE 2011 PLACES & SPACES: MAPPING SCIENCE EXHIBIT.

Calling All Mapmakers

INNOVATION JANUARY 13, 2011

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Call for Maps for the 2011 Iteration of the Places & Spaces: Mapping Science Exhibit on "Science Maps as Visual Interfaces to Digital Libraries."

Deadline is January 30, 2011

Background and Goals

The [Places & Spaces: Mapping Science](#) exhibit was created to inspire cross-disciplinary discussion on how to best track and communicate human activity and scientific progress on a global scale. It has two components: (1) physical exhibits enable the close inspection of high quality reproductions of maps for display at conferences and education centers and (2) the [online counterpart](#) provides links to a selected series of maps and their makers along with detailed explanations of how these maps work.

Places & Spaces is a 10-year effort. Each year, 10 new maps are added, which will result in 100 maps total in 2014. Each iteration of the exhibit attempts to learn from the best examples of visualization design. To accomplish this goal, each iteration compares and contrasts four existing maps with six new maps of science. Themes for the different iterations/years are:

- 1st Iteration (2005): The Power of Maps
- 2nd Iteration (2006): The Power of Reference Systems
- 3rd Iteration (2007): The Power of Forecasts
- 4th Iteration (2008): Science Maps for Economic Decision Makers
- 5th Iteration (2009): Science Maps for Science Policy Makers
- 6th Iteration (2010): Science Maps for Scholars
- 7th Iteration (2011): Science Maps as Visual Interfaces to Digital Libraries
- 8th Iteration (2012): Science Maps for Kids
- 9th Iteration (2013): Science Maps for Daily Science Forecasts
- 10th Iteration (2014): Telling Lies With Science Maps

Places & Spaces was first shown at the Annual Meeting of the Association of American Geographers in April 2005. Since then, the physical exhibit has been displayed at more than 175 venues in over 15 countries, including eleven in Europe, plus Japan, China, Brazil, Canada, and the United States. A schedule of all display locations can be found at <http://scimaps.org/exhibitions>.

Submission Details

The 7th iteration of the Mapping Science exhibit is devoted to science maps that serve as visual interfaces to digital libraries. These maps might communicate the quality and coverage of data sets, the structure (ontology, taxonomy, classification hierarchy) of data sets, (semantic) linkages between data sets, the evolution of a data set, or access and usage patterns of data sets.

They are intended to support the navigation, management, and utilization of mankind's scholarly knowledge and to make it more readily available to researchers, educators, industry, policy makers and/or the general public.

We invite maps that show a visual rendering of a data set together with a legend, textual description, and acknowledgments as required to interpret the map. Science map dimensions can be abstract, geographical, or feature-based, but are typically richer than simple x, y plots. Scientific knowledge can be used to generate a reference system over which other data, e.g., funding opportunities or job openings, are overlaid or be projected onto another reference system, e.g., a map of the world, but must be prominently featured. See <http://scimaps.org/all-maps-1-6.pdf> for an overview of the 60 maps already featured in the exhibit.

Each initial entry must be submitted by **Jan 30th, 2011** and needs to include:

- *Low resolution version of map
- *Title of work
- *Author(s) name, email address, affiliation, mailing address
- *Copyright holder (if different from authors)
- *Description of work: Scholarly needs addressed, data used, data analysis, visualization techniques applied, and main insights gained (100-300 words)
- *References to publications in which the map appeared
- *Links to related projects/works
- *Entries should be submitted via email to the curators of the exhibit: Katy Börner (katy@indiana.edu) and the exhibit designer Michael J. Stamper (mstamper@indiana.edu) using the email subject header **"Mapping Science Entry."**

Review Process

All submissions will be reviewed by the exhibit advisory board and invited scholars from academia, industry, and government. Submissions will be judged in terms of

Scientific value – quality of data collection, analysis and communication of results.
Appropriate (innovative?) application of existing algorithms and/or development of new approaches.
Value for scholars – what major insight does the map provide and why does it matter? Is the map easy to understand by scholars and the exhibit audience?

Final Submission

Authors of winning entries will be contacted at the end of February and invited to submit final entries by April 30th, 2011. Each final entry comprises:

- Title of Work
- Author(s) name, email address, affiliation, mailing address
- 24 x 30 inch, 300 dpi, landscape version of map
- Official map description (200 words)
- Biographies and photos of all authors (100 words each)
- Signed copyright and reproduction agreement
- Map makers are welcome to use the expertise and resources of the exhibit curators when designing their final maps. The layout and production of the 6th iteration maps are expected to be ready for display by mid-June, 2011.

Important Dates

- Submit initial entries: January 30th, 2011
- Notification to mapmakers: February 28th, 2011
- Submit final entries: April 30th, 2011
- 7th Iteration ready for display: June 15th, 2011

Exhibit Advisory Board

- Deborah MacPherson**, Accuracy&Aesthetics
- Kevin Boyack**, SciTech Strategies, Inc.
- Sara Irina Fabrikant**, Associate Professor of Geography and head of the Geographic Information Visualization and Analysis (GIVA) group at the GIScience, Geography Department, University of Zürich, Switzerland
- Peter A. Hook**, Law Librarian, Indiana University
- André Skupin**, Associate Professor of Geography, San Diego State University
- Bonnie DeVarco**, Media X, Stanford University
- Dawn Wright**, Professor of Geography and Oceanography, Oregon State University

Please feel free to send any questions you might have regarding the judging process to Katy Börner (katy@indiana.edu). Please keep subject header: **"Mapping Science Entry."**

This call is also available at scimaps.org

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IDEAS

I Tried Almost Everything Else
John Rinn, snowboarder, skateboarder, and "genomic origami," on why we should dumpster-diver in our genomes and the inspiration of a middle-distance runner.

IDEAS

Going, Going, Gone
The second most common element in the universe is increasingly rare on Earth—except, for now, in America.

IDEAS

Earth-like Planets Aren't Rare
Renowned planetary scientist James Kasting on the odds of finding another Earth-like planet and the power of science fiction.

