


## The Published Numeracy Network

**Len Vacher**

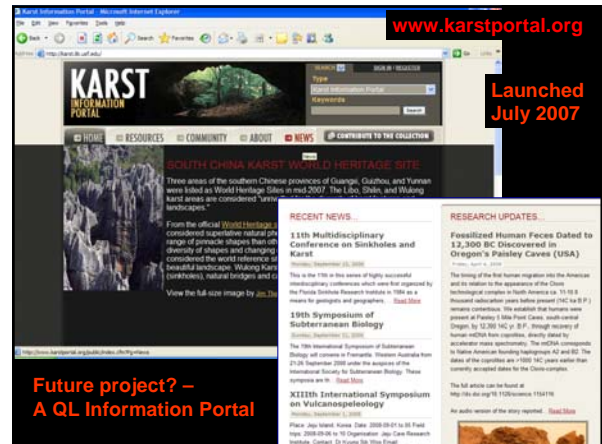
**Todd Chavez**      Collection Analysis and Technical Services Director  
USF Libraries  
(i.e., assistant dean for information science)

**Travels with Todd, the guy behind Numeracy**



*Our first project →*

May 17 2008  
Colby-Sawyer College



**www.karstportal.org**

**Launched July 2007**

**Future project? – A QL Information Portal**

### Conversation behind the scene (actually before the scene)

April 2005

Len (introducing himself to Todd): *I'm Len Vacher, from Geology.*

Todd: *I know who you are.*

Len (thinking what now?): *Oh?*

Todd: *You're the guy from the National Numeracy Network.*

Len (thinking Good Grief!): *How did you know?*

Todd (thinking Dummie!): *I Googled you.*

Pause

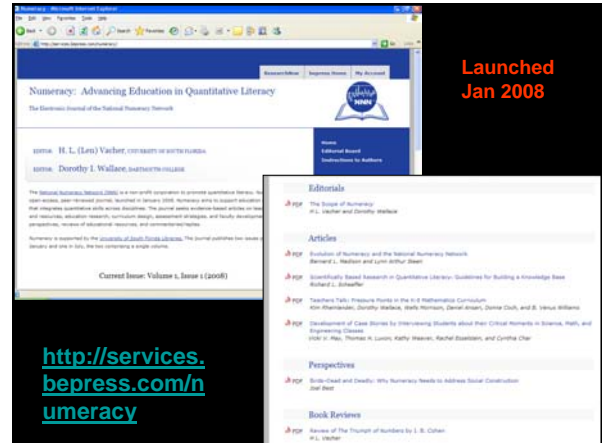
Todd: *So what is it you NNN people want to accomplish?*

And Len recited the vision and mission statement, perhaps paraphrasing.

Todd: *So what is it you really want to accomplish?*

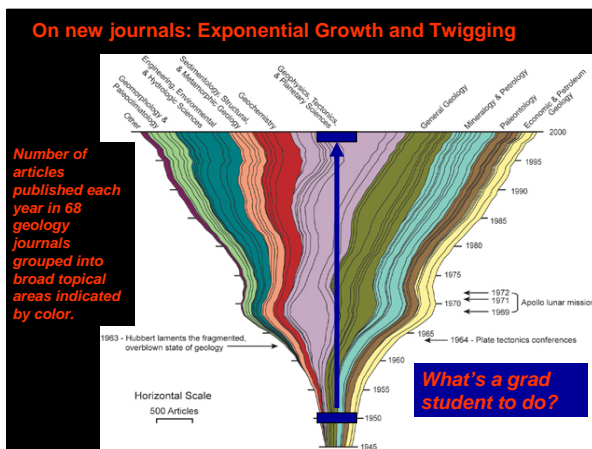
Len: *I guess I'd like to see QL become its own academic discipline (transcending disciplines)*

Todd: ***What you all need is a scholarly journal!***  
*If it's open access, we'll help. (!!)*



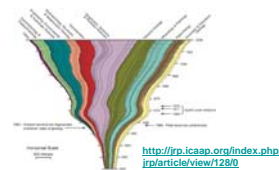
**Launched Jan 2008**

<http://services.bepress.com/nnumeracy>




### The 68 geology journals

Compositional Geology	Journal of Geophysical Research
Mathematical Geology	Bulletin of the Mathematical Society of America
Paleoanthropology	Geochimica et Cosmochimica Acta
Marine Geology	Precession Research
Paleogeography, Paleoclimatology, Paleoenvironment	Geomorphological Research
Earth Surface Processes and Landforms	Geology
Continental	Canadian Journal of Earth Sciences
Environmental and Engineering Geosciences	Geological Magazine
Hydrological Processes	Journal of the Geological Society of London
Quarterly Journal of Engineering Geology	Journal of Geology
Engineering Geology	Geological Society of America Bulletin
Soil Science Society of America Journal	Canadian Journal of Mineralogy
Water Resources Research	Physics and Chemistry of Minerals
Orebody	Minerals
Journal of Hydrology	Clays and Clay Minerals
Journal of Mineralogical Geology	Contributions to Mineralogy and Petrology
Journal of Structural Geology	Journal of Petrology
Sedimentary Geology	The Canadian Mineralogist
Sedimentology	Mineralogical Magazine
Journal of Sedimentary Research	Journal of Petrological Research
Global Biogeochemical Cycles	Petrology
Applied Geochemistry	Journal of Petrological Research
Organic Geochemistry	Journal of Petrological Research
Chemical Geology	Mineralogical Magazine
Geochimica et Cosmochimica Acta	Mineralogical Magazine
Isotopes and Primary Science	Journal of Petrology
Geochronological Journal International	Journal of Geophysical Research
Tectonics	International Journal of Civil Geology
Bulletin of Paleontology	Journal of Petrological Research
Journal of Paleontology and Geomorphology Research	Mineralogical Magazine
Physics of the Earth and Planetary Interiors	American Association of Petroleum Geologists Bulletin
Tectonophysics	Economic Geology



**More information:** Fratesi and Vacher, 2008, Scientific Journals as Fossil Traces of Sweeping Change in the Structure and Practice of Modern Geology. *Journal of Research Practice* (online).

**More artwork by Beth Fratesi**




**What's a grad student to do? →**

Todd: *Priority role of our Library is to prepare USF PhD students to write the literature review for their dissertations.*

Len to Todd: *What we (Geology) need is a course! (Sep 2007)*

First major component:  
Finding the peer-reviewed research literature in impact journals



Indexed by *Web of Science* (Science Citation Index)  
9300 journals  
256 subject classes (tags)  
source of "impact journal" (IF)

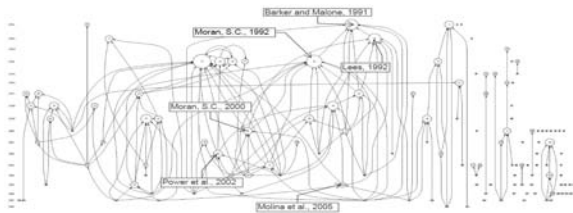
Concepts for graduate students:  

- It doesn't count as research until it's published.
- It's not "published" if it's not published in an impact journal.

Caveat: *WoS* does not include all journals, nor (in general), monographs or books, edited volumes, grey literature, Web sites.

Heather's graph, April 2008

Search Strategy: **Imaging AND magma AND seismology**

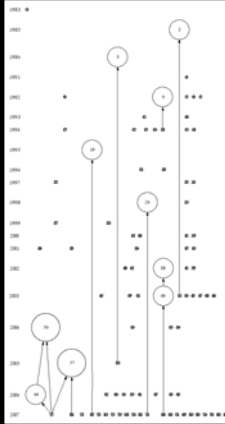


HistCite graph of research aimed at imaging magmatic systems using seismology. Benchmark papers for this search are records number 4, 8, 11, 43, 66, and 100

Len's lecture

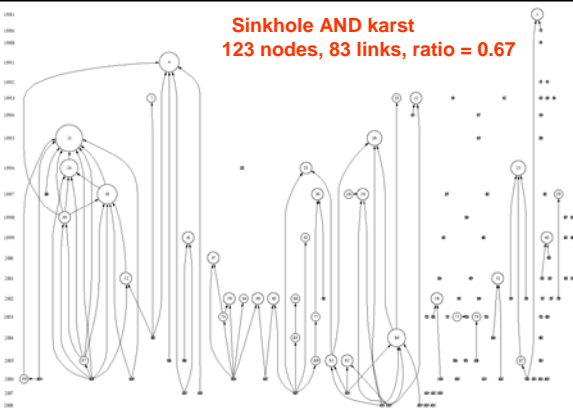
"The social network behind karst literature."

i.e., publishing behavior of karst researchers



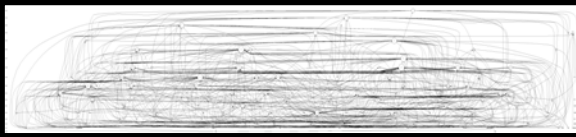
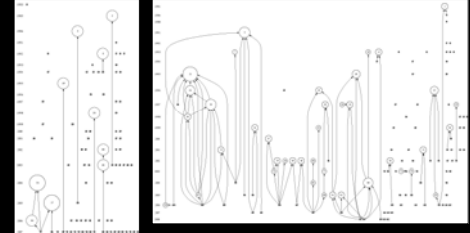
Island AND karst

89 nodes,  
12 links,  
ratio = 0.135



Sinkhole AND karst  
123 nodes, 83 links, ratio = 0.67

speleothem AND isotope 163 nodes, 702 links; ratio = 4.3

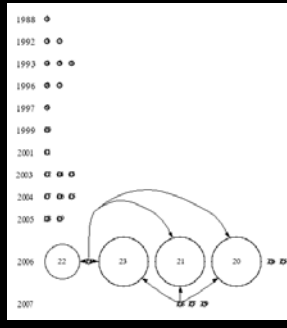
Who do you suppose gets funded?

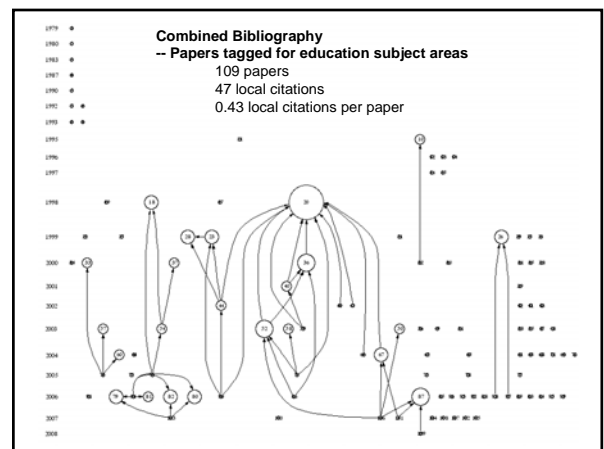
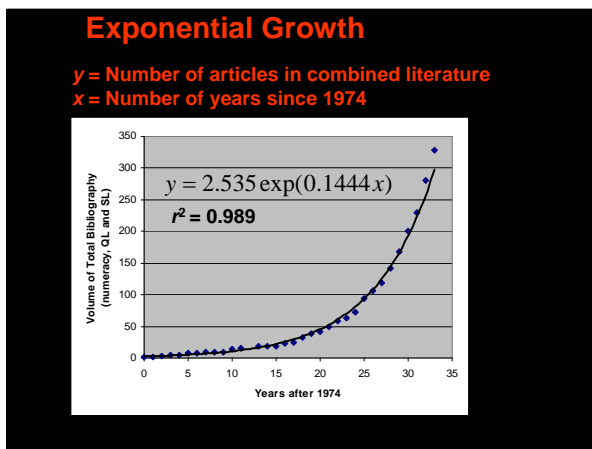
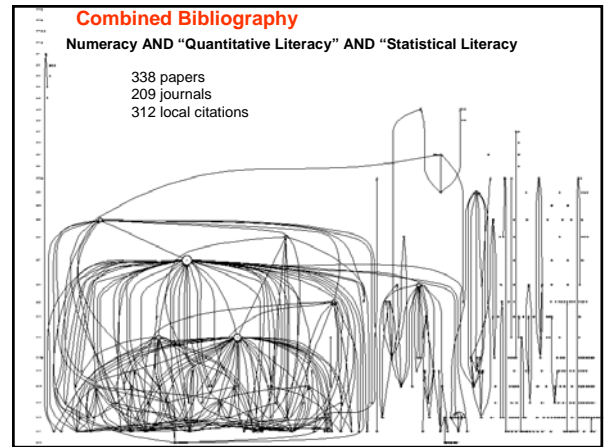
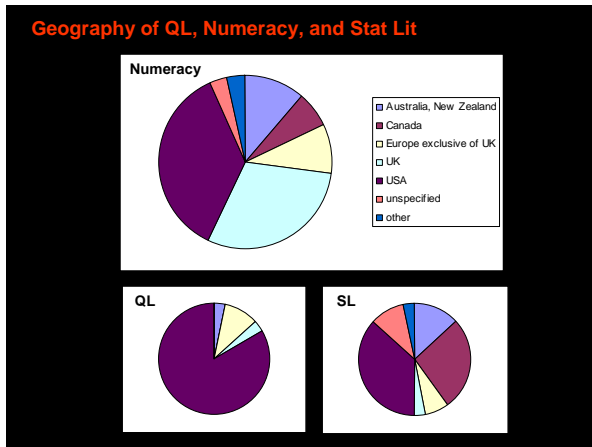
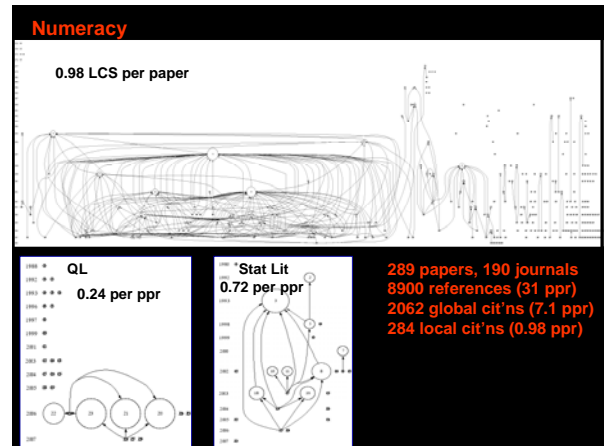
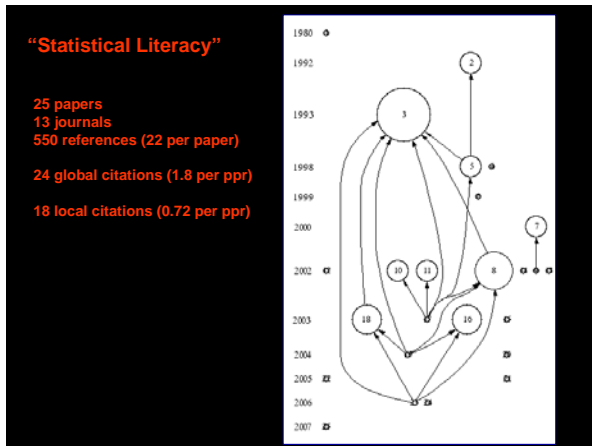
"Quantitative Literacy"

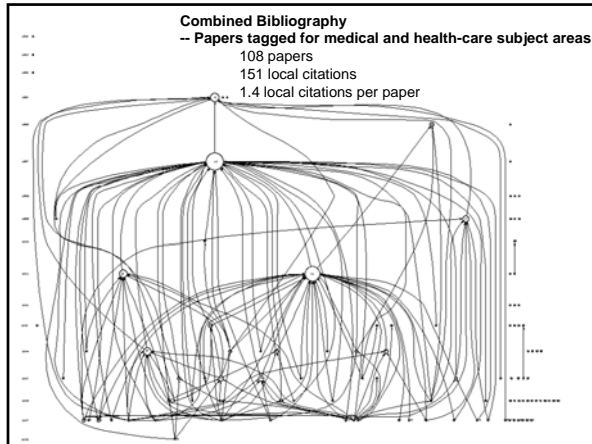
29 papers  
17 journals  
754 references (26 per paper)

103 global citations (3.6 per paper)

7 local citations (0.24 per paper)







As a Numeracy editor,  
 What have I learned from my travels with Todd?  
 On Forming a new discipline: Think of your new discipline as a new silo with pervious boundaries.

Therefore:

- Have your journal (and other materials) open access.
- Cite one another.
- Use stand-alone abstracts.
- Have meaningful titles.